**ANNUAL REPORT 2020-21**

**RESEARCH**

The institute promotes research related to communication and its disorders. Special emphasis is given toclinically 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.

1. **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), Science and Engineering Research Board (SERB), the Government of India funding agencies, and UK Research and Innovation (UKRI) and United Nations Global Partnership for Assistive Technology, the international funding agencies.

* 1. **Completed Projects**

Sixty research projects worth **Rs. 278.71 lakhs** were successfully completed during the reporting year. All the completed projects were funded by the Institute.

**1.1.1 AIISH Funded Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Topic** | **Investigators** | **Amount in lakhs** |
|  | Optimizing the response filter setting for acquisition of ocular vestibular evoked myogenic potential elicited by air-conduction tone bursts of 500Hz | Dr. Niraj Kumar Singh & Dr. Animesh Barman | 4.03 |
|  | Is acceptance noise level a deciding factor of tinnitus management using hearing aids? | Dr. Hemanth, N., Dr. Jijo. P.M.& Dr. Vijay Kumar Narne | 4.03 |
|  | Evaluation of digital signal processing features in hearing aids with ear to ear synchronization | Dr. Geetha C. &  Mr. Kishore Tanniru | 4.03 |
|  | Relationship between behavioural measures and aided cortical potential responses in children with hearing impairment (6 months to 5 years) | Dr. Prawin Kumar &  Ms. C Geetha | 4.03 |
|  | Effectiveness of CBAT in children with CAPD-evidences from electrophysiology study | Dr. Prawin Kumar &  Dr. Niraj Kumar Singh | 5.83 |
|  | Relationship between envelop difference index (EDI) and speech perception with noise reduction strategies in hearing aids | Ms. Geetha C. &  Dr. Hemanth, N | 4.33 |
|  | Effectiveness of SNR-50 and SNR Loss in hearing aid evaluation | Dr. P Manjula&  Ms. Megha | 4.33 |
|  | Bithermal caloric test and video impulse test for the assessment of unilateral vestibular pathologies | Dr. Niraj Kumar Singh & Dr. Rajeshwari G | 4.33 |
|  | Neural correlates of perceptual learning of non-native speech sound contrast | Dr. Ajith Kumar U. &  Dr. Santosh M | 4.33 |
|  | Noise mapping of mysuru city with additional funding | Dr. Sreeraj K. &  Ms. Suma Chatni | 6.70 |
|  | Within and across temporal resolution abilities in individuals with normal hearing, sensorineural hearing loss and auditory neuropathy spectrum disorders | Dr. Animesh Barman | 4.33 |
|  | Effect of auditory deprivation on some aspects of temporal processing and speech perception abilities | Dr. Sandeep M. &  Ms. Chandni Jain | 4.33 |
|  | Audiological and vestibular assessment in persons with osteoporosis and osteopenia | Dr. Prawin Kumar&  Dr. Raghunandana S | 4.93 |
|  | Contributory factors of hearing handicap in individuals with sensorineural hearing loss and auditory neuropathy spectrum disorder (ANSD) | Dr. Ajith Kumar U. & Dr. Hemanth N | 4.93 |
|  | Development of low frequency range word lists in Malayalam | Mr. Prashanth Prabhu & Mr. Jithin Raj B. | 4.93 |
|  | Effect of cochlear implantation and surgery technique on cervical vestibular evoked myogenic potential | Mr. Sachchidanand Sinha, Dr.Niraj Kumar Singh, Mr. Nirnay Kumar Keshree & Dr. Shenal Kothari | 4.93 |
|  | Exploring real world hearing aid usage and outcome: current Indian scenario | Dr. P. Manjula | 4.93 |
|  | Effect of spatial noise on speech identification | Dr. Asha Yathiraj | 4.93 |
|  | Relationship between hearing aid benefit and auditory processing abilities in elderly individuals with hearing impairment | Dr. Geetha C. &  Dr. Chandni Jain | 5.05 |
|  | Auditory processing in children with speech sound disorders | Dr. Chandni Jain &  Ms. Priya M.B. | 5.05 |
|  | Speech identification in the non-aided ear in monaural hearing aid users | Dr. Asha Yathiraj | 4.93 |
|  | Development of AIISH hyperacusis assessment toolbox for individuals with tinnitus associated with hyperacusis | Dr. Prashanth Prabhu P. | 4.93 |
|  | Development of a cost effective configuration for optimal quality recording for speech analysis | Dr. Ajish K Abraham | 4.93 |
|  | Effect of canal widening (Type I Tympanoplasty) on hearing sensitivity | Dr. T.K Prakash,  Dr. H. Sundara Raju  & Ms. Devi N. | 4.99 |
|  | Database on communication disorders published in India | Dr. Shijith Kumar C.,  Mr. Nanjunda Swamy M. & Mr. Nandeesha B | 4.20 |
|  | Development of toy usage index for children with developmental disabilities | Dr. S Venkatesan | 3.01 |
|  | Development of a grade level assessment tool in social science (GLAT-SS) of Karnataka state education board | Dr. Palnaty Vijetha &  Dr. Alok Kumar Upadhyay | 3.85 |
|  | Efficacy of developing skills through curricular activities among preschool children with hearing impairment at AIISH | Dr. Alok Kumar Upadhyay &  Dr. Palnaty Vijetha | 3.80 |
|  | Efficacy of self learning adapted social studies lessons in kannada and telugu and children with hearing impairment at secondary school level | Dr. Palnaty Vijetha, Dr. G Malar, Mr. Rajkumar R & Ms. Leelarani S.B. | 3.25 |
|  | AIISH survey of fluency disorders | Dr. Y.V Geetha & Ms. Sangeetha Mahesh | 4.03 |
|  | Status report of speech and hearing professionals graduated from AIISH – national and global scenario | Dr. S. Ramkumar &  Dr. S.P Goswami | 4.50 |
|  | Development and validation of pragmatic skill checklist in children with autism spectrum disorder | Dr. K.C Shyamala | 4.03 |
|  | Development and validation of video manual for different management techniques in children with autism spectrum disorders | Dr. Shyamala K.C | 4.03 |
|  | Development and validation of a computerized screening tool for infant cry | Dr. N. Sreedevi, Dr. Jayashree C. Shanbal & Mr. Arunraj K. | 4.43 |
|  | Validation of feeding handicap index in children with intellectual disability and autism spectrum disorders | Dr. N. Swapna | 4.03 |
|  | Nature of non-explicit declarative and procedural memory systems in pre-adolescents with specific language impairment: examining the post scripts of procedural deficit hypothesis | Mr. Kuppuraj S. & Dr. K.S Prema | 4.03 |
|  | Lexical semantic processing in persons with aphasia: correlational study of psycholinguistic and neurolinguistic measures | Mr. Abhishek B.P. &  Dr. K.S Prema | 4.03 |
|  | Genetic insights of cerebral palsy using massively parallel sequencing | Dr. N. Sreedevi,  Dr. N Swapna &  Dr. Srinivas Kovalli | 6.31 |
|  | Effect of noise and noise reduction technique on speaker identification | Dr. Hema N. | 4.33 |
|  | Development and standardization of an oral sensorimotor evaluation protocol for children (OSEP-C) | Dr. N. Swapna | 4.33 |
|  | Lexical processing in type 2 diabetes | Dr. Rajasudhakar R | 4.93 |
|  | Development of severity rating scale for children with autism spectrum disorders | Dr. K.C. Shyamala | 4.93 |
|  | Validation of nasality severity index | Dr. Navya A. &  Dr. Pushpavathi M. | 4.93 |
|  | Phonological encoding in children with stuttering | Dr. Sangeetha Mahesh  & Ms. M.P Geetha | 4.93 |
|  | Behavioral and electrophysiological correlates (N400) of lexical and phonological access in children with stuttering | Dr. M. Santosh & Dr. M Sandeep | 4.93 |
|  | An adaptation of bankson language screening test in hindi (BLST-H) | Dr. Brajesh Priyadarsi & Dr. S.P Goswami | 4.93 |
|  | An adaptation of early reading skills (ERS) in Malayalam (ERS-M) | Dr. Brajesh Priyadarsi & Ms. Gayathri Krishnan | 4.93 |
|  | A descriptive study on the video-fluroscopic measures of neurogenic dysphagia in patients with stroke and motor neuron disease | Dr. S P Goswami,  Dr. Muralidharan Nair,  Dr. Sylaja, Ms. Gayathri Krishnan & Ms. Manju Mohan | 4.93 |
|  | A pre-post comparison of vocal loading using infrared thermography in phono-normals | Dr. R Rajasudhakar | 5.03 |
|  | TOLD-H: An adaptation of TOLD | Dr. Brajesh Priyadarshi & Dr. S.P Goswami | 4.96 |
|  | Executive functions in normal aging and persons with mild cognitive impairment | Dr. Abhishek B.P. &  Dr. R Rajasudhakar | 4.98 |
|  | Discourse and working memory in neuro-typical individuals and adults with aphasia | Dr. Hema N. | 4.98 |
|  | Vocal dose and immediate effects of the straw phonation exercises on parameters of vocal loading in carnatic classic singers | Dr. Santhosh M.&  Dr. Usha Devadas | 4.83 |
|  | Construction and validation of a short version of the impact scale for assessment of cluttering and stuttering (ISACS) | Dr. Santhosh M.& Dr. Pallavi Kelkar | 4.83 |
|  | Standardization of linguistic profile test (LPT) in Tamil | Dr. T Jayakumar | 4.88 |
|  | Development and standardization of reading passages for children in Kannada | Dr. Sangeetha Mahesh | 4.93 |
|  | Development of a preliminary test for assessment of prosody in children with SLI | Dr. N Sreedevi&  Dr. Sangeetha M. | 4.88 |
|  | Development of an objective tool for aphasia assessment through artificial neural networks | Dr. S.P Goswami&  Dr. Abhishek B.P | 4.83 |
|  | Development and validation of a screening tool for detection of dysphagia in neonates | Dr. Swapna N | 4.93 |
|  | Cognitive linguistic abilities across different vocations | Dr. K.C Shyamala | 4.93 |

**1.2 Ongoing Projects**

Fifty-two research projects worth **Rs. 472.13 lakhs** were ongoing in different departments of the Institute during the reporting year. Of these, six projects worth **Rs. 232.23 lakhs** were funded by extramural funding agencies and the remaining forty-six projects by the institute.

**1.2.1 Extramural Research**

1. 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.
2. 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. Amount: 53.23 lakhs.
3. 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. Amount: 28.49 lakhs.
4. Auditory and cognitive consequences of dys-synchronours auditory nerve activity. Investigators: Dr. Ajith Kumar U. & Dr. Sandeep M. Funding: Department of Science and Technology. Amount: 42.78 lakhs.
5. Neuroaudiological profiling of Children with Specific Language Impairment. Investigators: Dr. Animesh Barman, Dr. Swapna N. & Dr. Prashanth Prabhu. Funding: Department of Science and Technology. Amount: 43.50 lakhs.
6. 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: Global Challenges Research Fund (GCRF) of UK Research and Innovation. Amount: 28.94 lakhs.

**1.2.2 AIISH Funded Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.**  **No.** | **Topic** | **Investigators** | **Amount in lakhs** |
| 1. 1 | Standardization of a discourse analysis scale for conversation, narration and picture description in kannada (DAS) | Dr. Hema N. &  Dr. K C Shyamala | 4.03 |
|  | Communication based rehabilitation for persons with communication disorders in the foothill and rural areas of dindigul district, Tamil Nadu | Dr. Jayashree C.  Shanbal, Mr. S. Ramkumar & Mr. Arunraj K. | 9.25 |
|  | Morphosyntactic processing in dyslexia: application of an ERP measure | Dr. Jayashree C Shanbal, Ms. Mamatha N.M.&  Gopi Shankar R | 4.03 |
|  | 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 |
|  | Adaptation and validation of vocal fatigue index (VFI) in Kannada | Dr. R Rajasudhakar | 4.33 |
|  | Behavioural and electrophysiological correlates (N400) of lexical access in bilingual adults with stuttering | Dr. Santosh M. & Dr. Abhishek B.P. | 4.33 |
|  | Effect of combined tactile, thermal and gustatory stimulation on feeding and swallowing in children with cerebral palsy | Dr. N Swapna | 4.93 |
|  | 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 |
|  | Field-testing of ‘Constant Therapy’ in Hindi and Kannada | Dr. S.P Goswami &  Dr. Swathi Kiran | 4.93 |
|  | 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 |
|  | Life satisfaction and quality of life in persons with aphasia beyond communication | Dr. S.P Goswami | 4.96 |
|  | Development and validation of a mobile application tool for airthmetic concept teaching for preschoolers | Dr. Swapna N | 7.88 |
|  | Prevalence and risk factors for voice problems and effect of voice projection training in imans | Dr. Jayakumar T. | 4.88 |
|  | Behavioural and electrophysiological (P300) correlates for visual and auditory process in Alzheimer’s diseases | Dr. Hema N. & Dr. Devi N. | 4.88 |
|  | Short term correlations between speech motor variability and behavioural dysfluencies in persons with stuttering following fluency shaping therapy | Dr. Anjana B. Ram &  Mr. Mahesh BVM | 4.85 |
|  | Development and standardization of western aphasia battery in Tamil | Dr. Hema N | 4.88 |
|  | Cognitive linguistic intervention program for children at risk for learning disability | Dr. Jayashree C. Shanbal & Mr. Hariharan V. | 4.93 |
|  | Automatic quantification of the glottal area in the stroboscopic videos using deep neural network | Mr. Rahul Krishnamurthy, Dr. Prasanta Kumar Ghosh, Dr. Suja S & Dr. T.K Prakash | 9.86 |
|  | Perception and production of prosody in children with hearing impairment | Dr. Yeshoda K &  Dr. Sreeraj K | 4.93 |
|  | Auditory brain plasticity: in carnatic vocalists, instrumental musicians and non-musicians | Dr. K Rajalakshmi | 4.03 |
|  | An exploratory study of tinnitus in Indian context | Dr. K Rajalakshmi, Mr. Vinaya K.C, Prof. David Baguly & Prof. Gerhard Andersson | 4.03 |
|  | 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 |
|  | Impact of acoustic stimuli used for various measures of VEMP on the auditory system | Dr. Niraj Kumar Singh & Dr. Prawin Kumar | 4.93 |
|  | Normative data for click rate induced facilitation for assessing temporal integration | Dr. K. Rajalakshmi & Mr. Prashasti P. Poovaiah | 4.93 |
|  | Product development of useful products of research carried out at AIISH | Dr. Prashanth Prabhu, Dr. Shijith Kumar C.& Dr. Priya M.B | 5.03 |
|  | Encoding of speech and music at auditory brainstem (frequency following response) with and without hearing aid | Dr. Devi N. | 4.98 |
|  | Auditory temporal processing in older adults: A behavioural and electrophysiological measures | Mr. Prashanth Prabhu | 5.18 |
|  | The genetics of sensorineural hearing loss | Dr. K. Rajalakshmi, Dr. Srinivas K.,  Dr. Sreedevi N. &  Dr. Jayakumar | 9.68 |
|  | 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 |
|  | 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 |
|  | Development of phonemically balanced word lists in Tamil language for adults | Dr. Geetha C. &  Dr. Devi N. | 4.88 |
|  | Relationship between auditory abilities and iron deficiency anemia in adolescent girls | Dr. Chandni Jain, Dr. Chetak K.B & Mr. Vipin Ghosh | 5.33 |
|  | 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 |
|  | 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 |
|  | Cochlear implant outcome measures: Comparison of rating scales and speech perception | Ms. Megha | 5.05 |
|  | Disability evaluation in mental retardation using WHODAS 2.0 in a clinical setting | Mr. Freddy Antony&  Mr. Sanjeev Kumar Gupta | 3.25 |
|  | Computerized auditory training for Kannada speaking children with hearing impairment | Mr. Manohar N,  Mrs. Revathi K.R.,  Mr. Prashanth Prabhu P. & Mr. Raghavendra G.N. | 3.31 |
|  | Design and development of e-learning platform and faculty profile system | Dr. Shijith Kumar C.,  Dr. Manohar N.&  Dr. Malar G. | 4.68 |
|  | Development of speech enabled communication tool for clients with speech impairment in Kannada | Mr. Manohar N | 4.95 |
|  | Automation of Malayalam articulation test using automatic speech recognition techniques | Dr. Ajish K Abraham,  Dr. Leena Mary&  Dr. N. Sreedevi | 5.00 |
|  | Feasibility of standardized neuropsychological tests in assessment of patients with aphasia | Dr. Amrita Kanchan &  Dr. Nawab A Khan | 3.30 |
|  | 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 | 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 |
|  | Development of grade level assessment test in science for upper primary school children (VI-VIII) | Dr. Prithi Venkatesh | 4.00 |
|  | Design, development and validation of open source platform for AIISH digital repository and online public access catalogue | Dr. Shijith Kumar C.,  Mr. Nanjunda Swamy M., Mr. Nidheesh David Kuruvilla, Mr. Lokesh P.& Mr. Raghavendra G.N. | 3.00 |

**1.3 New Research Projects**

Six research projects worth **Rs. 327.87 lakhs** funded by extramural funding agencies were initiated during the reporting year.

**1.3.1 Extramural Research**

1. Cognitive Linguistic Abilities in Children with Cleft Lip and Palate: Phase II. Investigator: Dr. M. Pushpavathi. Funding: Department of Science and Technology. Amount: 19.87 lakhs.
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: 81.25 lakhs.
3. Efficacy of articulation and prosody intervention program for children with hearing impairment using hearing aids. Investigators: Dr. N Sreedevi & Dr. Sangeetha Mahesh. Funding: SERB. Amount: 23.72 lakhs.
4. Effect of cognitive load on speech and voice characteristics across lifespan: A cross sectional study. Investigators: Dr. Jayakumar T. & Dr. K. Yeshoda. Department of Science and Technology. Amount: 28.62 lakhs.
5. Scalable hearing rehabilitation for low and middle income countries (SHRLMIC). Investigators: Dr. Jhon Newall, Dr. S.P. Goswami & Dr. Geetha C. Funding: United Nations Global Partnership for Assistive Technology. Amount: 144.41 lakhs.
6. Acoustic and Perceptual analyses of speech in children with stuttering pre and post therapy comparison. Investigator: Dr. Sangeetha Mahesh. Funding: Department of Science and Technology. Amount: 30 lakhs.
7. **Doctoral Research**

Totally, four students completed their doctoral research during the reporting year. In addition, 95 students were pursuing their doctoral 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**

|  |  |  |  |
| --- | --- | --- | --- |
| **Candidate** | **Topic** | **Guide** | **Status** |
| **Degree Awarded** | | | |
| Gayathri Krishnan | Effect of Bolus characteristics and head position on respiratory-swallow coordination | Dr. S.P Goswami | Awarded |
| Geethi S | Development of metapragmatic tool for adolescents in Malayalam and its validation on children with specific learning disorder | Dr. Shyamala K.C | Awarded |
| Niharika M K | Cognitive-linguistic processing in native adult speakers of Kannada | Dr. Prema K.S | Awarded |
| Yashaswini L | Categorical perception and processing of speech and music stimuli in individuals with and without music training | Dr. Sandeep M | Awarded |

**Table 2: Ongoing Doctoral Research**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.No.** | | | **Candidate** | | | | | **Category** | **Topic** | | **Guide** | |
| **Audiology** | | | | | | | | | | | | |
|  | | | Anoop B.J | | | | | External | Cognitive and ERP measures of informational masking in young and elderly normal hearing individuals | | Dr.Ajith Kumar U | |
|  | | | Anuprasad S | | | | | External | Auditory Processing and Auditory Working Memory in Children with Benign Epilepsy with Centrotemporal Spikes | | Dr. K Rajalakshmi | |
|  | | | Arunraj K | | | | | In-service | Clinical Validation of Wideband Absorbance Tympanometry in Detecting Middle Ear Disorders | | Dr. Animesh Barman | |
|  | | | Bhalerao Sanket Satish | | | | | External | Yet to decide | | Dr. Geetha C | |
|  | | | 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 | |
|  | | | Dhananjay Rachana | | | | | External | Yet to decide | | Dr. Devi N | |
|  | | | Dhanya M | | | | | External | Perceptual Cues of Coarticulation in Malayalam in Normal Hearing and Hearing Impaired Individuals | | Dr. Sandeep M | |
|  | | | Gowri R | | | | | AIISH, JRF | Yet to decide | | Dr. Sandeep M | |
|  | | | Husna Firdose | | | | | External | A relationship between Audiological characteristics and a few management options in individuals with auditory neuropathy spectrum disorders | | Dr. Manjula P | |
|  | | | Indira C.P | | | | | External | Hearing Help Seeking Behaviour in Parents of Children with Hearing Loss | | Dr. Sandeep M | |
|  | | | 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 | |
|  | | | Jim Saroj Winston | | | | | AIISH, JRF | Effect of Short-term musical training on psycho-acoustical, electrophysiological and working memory measures | | Dr. Ajith Kumar U | |
|  | | | Kriti Arora | | | | | AIISH, JRF | Yet to decide | | Dr. Sandeep M | |
|  | | | 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 | |
|  | | | Mamatha N.M | | | | | In-service | Effect of Auditory Processing abilities on Academic Performance in Kannada Speaking Primary School Children | | Dr. Asha Yathiraj | |
|  | | | Meghana Mohan B | | | | | AIISH, JRF | Yet to decide | | Dr. K Rajalakshmi | |
|  | | | Meghana N | | | | | AIISH, JRF | Yet to decide | | Dr. Manjula P | |
|  | | | 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 | |
|  | | | Nayana M | | | | | AIISH, JRF | Yet to decide | | Dr. Prawin Kumar | |
|  | | | Pathak Mayur Balaji | | | | | External | Yet to decide | | Dr. Chandni Jain | |
|  | | | 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 | |
|  | | | Prajna Bhat J | | | | | External | Brainstem Neurophysiological Correlates of Pitch Coding In Vocal and Instrumental Musicians | | Dr. K Rajalakshmi | |
|  | | | Priyadharsini K | | | | | AIISH, JRF | Effect of Auditory training using Envelope Enhanced Speech on Speech Perception Abilities in Persons with Auditory Neuropathy Spectrum Disorder | | Dr.Ajith Kumar U | |
|  | | | Priyanjali Harit | | | | | External | Yet to decide | | Dr. Prawin Kumar | |
|  | | | 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 | |
|  | | | Rajesh Kumar R | | | | | AIISH, JRF | Yet to decide | | Dr. Niraj Kumar Singh | |
|  | | | Rakesh Gatla | | | | | AIISH, JRF | Effect of Exposure to Below-Damage Risk Criteria Environmental Noise on Auditory Processing Abilities | | Dr. Sandeep M | |
|  | | | Rashmi E | | | | | AIISH, JRF | Yet to decide | | Dr. Devi N | |
|  | | | Reesha O.A | | | | | DST-JRF | Efficacy of computer-based auditory separation training in children with auditory processing disorders | | Dr. Prawin Kumar | |
|  | | | S Sridhar | | | | | AIISH, JRF | Yet to decide | | Dr. Devi N | |
|  | | | Sahana P | | | | | AIISH, JRF | Yet to decide | | Dr. Manjula P | |
|  | | | Sahana V | | | | | AIISH, JRF | Auditory and cognitive profiling in normal hearing individuals with occupational noise exposure | | Dr. Ajith Kumar U | |
|  | | | Shezeen Abdul Gafoor | | | | | AIISH, JRF | Yet to decide | | Dr. Ajith Kumar U | |
|  | | | Shreyank P. Swamy | | | | | External | Comparison of Contralateral Suppression of Otoacoustic Emissions between Children with APD and Children with ADHD | | Dr. Asha Yathiraj | |
|  | | | Shubha Tak | | | | | External | Loudness Perception in Children Using Hearing Aids and Children Using Cochlear Implants | | Dr. Asha Yathiraj | |
|  | | | 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 | |
|  | | | Syeda Aisha | | | | | AIISH, JRF | Yet to decide | | Dr. Chandni Jain | |
|  | | | Vignesh SS | | | | | External | Auditory vestibular functions in individuals with multiple sclerosis | | Dr. K Rajalakshmi | |
|  | | | Vikas M.D | | | | | In-service | Effects of Temporal Resolution, Working Memory and Personality on Hearing Aid Benefit in Older Adults | | Dr. Manjula P | |
|  | | | Vinayagar P.T | | | | | AIISH, JRF | Yet to decide | | Dr. Sujeet Kumar Sinha | |
| **Sl.No.** | | | | | **Candidate** | | **Category** | | **Topic** | | | **Guide** | |
| **Speech-Language Pathology** | | | | | | | | | | | | | |
|  | | | | | Akshaya S | | External | | Yet to decide | | | Dr. SP Goswami | |
|  | | | | | Ameena Subhakani S | | JRF | | Yet to decide | | | Dr. Swapna N | |
|  | | | | | Amoolya G | | External | | Bilingual Effect on Written Language Skills in Kannada English Bilingual Biliterate Children With Learning Disability | | | Dr. Jayashree C Shanbal | |
|  | | | | | 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 | |
|  | | | | | Aparna V.S | | External | | Speech and Language Outcomes in School Goging Children Following Early Primary Cleft Palate Repair | | | Dr. M Pushpavathi | |
|  | | | | | Bilvashree C | | JRF | | Yet to decide | | | Dr. K Yeshoda | |
|  | | | | | Ceana Mariya Paul | | JRF | | Yet to decide | | | Dr. K. Yeshoda | |
|  | | | | | Darshan H. S | | JRF | | A Comparative Study on Statistical Learning Abilities in Persons with Aphasia and Neuro-typical Individuals | | | Dr. S P Goswami | |
|  | | | | | Deepak P | | JRF | | Efficacy of Verb Network Strengthening Treatment in Persons with Aphasia | | | Dr. S P Goswami | |
|  | | | | | Deepthy Ann Joy | | External | | Acoustic and articulatory characteristics of Malayalam speaking children using Cochlear Implant | | | Dr. N Sreedevi | |
|  | | | | | Divya Seth | | External | | Efficacy of response cost treatment in preschool children who stutter | | | Dr. Santosh M | |
|  | | | | | Divyashree K.N. | | JRF | | Yet to decide | | | Dr. N. Sreedevi | |
|  | | | | | Geetha M.P | | External | | Yet to decide | | | Dr. T. Jayakumar | |
|  | | | | | Girish K.S | | DBT-JRF | | Development of Norms for Nasospeech in Typically Developing Children | | | Dr. M Pushpavathi | |
|  | | | | | Jesnu Jose Benoy | | JRF | | Yet to decide | | | Dr. T Jayakumar | |
|  | | | | | Jothi S | | External | | Yet to decide | | | Dr. Jayashree C Shanbal | |
|  | | | | | 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 | |
|  | | | | | Kavya V | | JRF | | Yet to decide | | | Dr. Swapna N | |
|  | | | | | Khyathi G Jain | | External | | Yet to decide | | | Dr. SP Goswami | |
|  | | | | | Lakshmipriya S.M | | External | | Yet to decide | | | Dr. Hema N | |
|  | | | | | M. Sonam Belliappa | | 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 | |
|  | | | | | Manasa A.S | | External | | Yet to decide | | | Dr. M Pushpavathi | |
|  | | | | | Manju S | | External | | Speech and language development in Malayalam speaking toddlers with repaired cleft lip and palate | | | Dr. M Pushpavathi | |
|  | | | | | Nagashreeya D | | External | | Yet to decide | | | Dr. SP Goswami | |
|  | | | | | Nikitha M | | 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 | |
|  | | | | | Pooja C | | JRF | | Yet to decide | | | Dr. Hema N | |
|  | | | | | Priyanka | | External | | Cross-Linguistic Generalization of Fluency in Kannada-English Bilingual Adults who Stutter: Effect of Non-Programmed Prolonged Speech Treatment | | | Dr. Santosh M | |
|  | | | | | Rakesh C.V | | JRF | | Efficacy of Prolonged Speech and Pause and Talk Techniques in School-Aged Children with Stuttering: A Comparison | | | Dr. Santosh M | |
|  | | | | | Ranjini G.C. | | External | | Derived Acoustic measures of Vowels in Kannada Speaking children with Cochlear implant | | | Dr. N. Sreedevi | |
|  | | | | | Ranjitha Kashyap B.N | | JRF | | Yet to decide | | | Dr. T.Jayakumar | |
|  | | | | | Ranjitha R | | External | | Development and Standardization of a Test Battery to Evaluate Phonological Representations in Malayalam Speaking Preschool Children | | | Dr. N Sreedevi | |
|  | | | | | Reuben Thomas Varghese | | External | | Comparison of Early Cognitive - Communicative Deficits between Persons with Dementia of Alzheimer's Type (DAT) and Mild Cognitive Impairment (MCI) | | | Dr. S P Goswami | |
|  | | | | | Revathi R | | JRF | | Yet to decide | | | Dr. K Yeshoda | |
|  | | | | | Sahana Srinivasan | | JRF | | Yet to decide | | | Dr. Swapna N | |
|  | | | | | Seema M | | External | | Yet to decide | | | Dr. N. Sreedevi | |
|  | | | | | Sneha Mareen Varghese | | External | | Graphophonological-Semantic Flexibility and Reading Comprehension in Children with Dyslexia | | | Dr. Jayashree C Shanbal | |
|  | | | | | Srushti Shabnam | | External | | Acoustic Voice Quality Index based dysphonia severity classification | | | Dr. M Pushpavathi | |
|  | | | | | Susan G Oommen | | External | | Effect of bilingualism on linguistic and executive functions in children with autism spectrum disorders | | | Dr. Shyamala K C | |
|  | | | | | Sushma Manjunath | | JRF | | Development and Validation of Therapy Protocol for Compensatory Articulation in Children with repaired cleft lip and palate | | | Dr. M Pushpavathi | |
|  | | | | | Vasupradaa M | | JRF | | Yet to decide | | | Dr. Santosh M | |
|  | | | | | Vineetha Sara Philip | | JRF | | Symbolic language abilities for aided communication in persons with Aphasi | | | Dr. S P Goswami | |
|  | | | | | Yashaswini B C | | JRF | | Yet to decide | | | Dr. Hema N | |
| **Sl.**  **No.** | | | | **Candidate** | | **Category** | | | **Topic** | | | **Guide** | |
| **Linguistics** | | | | | | | | | | | | | |
| 1. | | | | Eman Al Haider Moussabi | | External | | | Yet to decide | | | Dr. Brajesh Priyadarshi | |
| 2. | | | | Maisa' A Jamal Mahmoud Alshawawreh | | External | | | The role of cognition and use of multimedia in vocabulary learning of jordan intermediate school children | | | Dr. Hema N | |
| 3. | | | | Mustafa Nafi Ahmed Alshawawreh | | External | | | Yet to decide | | | T. Jayakumar | |
| **Sl.**  **No.** | **Candidate** | | | | | **Category** | | | **Topic** | **Guide** | | | |
| **Special Education**  **[** | | | | | | | | | | | | | |
| 1. | | Devaraj N.B | | | | External | | | Effectiveness of school readiness program on pre-school children with hard of hearing | Dr. Alok Kumar Upadhyay | | | |
| 2. | | Dhivya D | | | | External | | | Yet to decide | Dr. Alok Kumar Upadhyay | | | |
| 3. | | Lakshmi Prabha J.K. | | | | External | | | Yet to decide | Dr. Alok Kumar Upadhyay | | | |
| 4. | | Omar Wajdy Aref Al- Rawashdeh | | | | External | | | Yet to decide | Dr. Alok Kumar Upadhyay | | | |
| 5. | | Nagarathnamma | | | | External | | | Yet to decide | Dr. Alok Kumar Upadhyay | | | |
| 6. | | Subramanya K.R | | | | External | | | Yet to decide | Dr. Alok Kumar Upadhyay | | | |

1. **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 and 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** |
| **Audiology** | | | | |
| 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 | 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 |
| 5 | Aneena K | Estimation of vestibule-ocular reflex gain using head impulse paradigm in individual with noise exposure | | Dr. Prawin Kumar |
| 6 | Aparna Ravi | Bilateral simultaneous auditory brainstem response in individuals with sensorineural hearing loss | | Dr. Sandeep M |
| 7 | Ashique C | Comparison of Differential sensitivity for Frequency, Intensity and Duration in individuals who practice physical activity and those who doesn’t practice physical activity | | Ms. Mamatha N.M |
| 8 | Augustina Noel Z | Speech identification through mobile phone, coupled to hearing aids, with and without wireless technology | | Dr. Manjula P |
| 9 | Chethana P | Test-retest reliability of working memory span tasks: Operation span, Reading span and Auditory digit span. | | Dr. Ajith Kumar U |
| 10 | Christy Sebastian | Effect of wide dynamic range compression on a few temporal characteristics and speech identification. | | Dr. Manjula P |
| 11 | Divya Chauhan | Effect of physiological noise on speech perception in noise in normal hearing adults | | Dr. Sandeep M |
| 12 | Gowtham Varma S | Cochlear microphonics: A comparison between scalp recording vs. Intracanicular recording procedure using tone bursts and click | | Dr. Animesh Barman |
| 13 | Hannah Thomas | Estimating safe stimulus level for 500 Hz tone burst evoked cervical and ocular vestibular evoked myogenic potential | | Dr. Niraj Kumar Singh |
| 14 | Hemashree B.M | Evaluation of temporal processing abilities in individuals categorized based on body mass index. | | Dr. Prashanth Prabhu |
| 15 | Kalaiyarasan R | Evaluation of temporal resolution abilities and speech perception in noise in abstinent alcoholics and non-alcoholics | | Dr. Devi N |
| 16 | Kirubaharane S.I | Multifrequency tympanometry in children with and without congenital sensorineural hearing loss. | | Dr. Ajith Kumar U |
| 17 | Kristi Kaveri Dutta | Effect of stimulus intensity used for frequency tuning of cVEMP on hearing | | Dr. Niraj Kumar Singh |
| 18 | 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 |
| 19 | Layamol T.P | Assessment of Hidden hearing loss in individuals exposed to noise using Tone Burst ABR and DPOAEs | | Dr. Prawin Kumar |
| 20 | Madhumanti Chakraborty | Role of MOCB on threshold and supra threshold measures of speech perception in noise | | Dr. Sandeep M |
| 21 | Manju Manikandan K | Influence of age, cognition and proficiency of the non-native background language on speech recognition of native language | | Dr. Geetha C |
| 22 | Megha Nigam | Relationship between spectral resolution and speech perception in noise in children with central auditory processing disorder | | Dr. Chandni Jain |
| 23 | Merina Thomas | Comparison of auditory working memory and speech perception in noise in children with and without chess training | | Dr. K Rajalakshmi |
| 24 | Mohana Priya R | Amplitude modulation discrimination in individual with normal hearing sensitivity having tinnitus | | Dr.Sreeraj K |
| 25 | 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 |
| 26 | Nivedharao Nagarajan | Auditory differential sensitivity for frequency, intensity, duration in abstinent alcoholic | | Dr. Devi N |
| 27 | Prajwal Kumar E | Effect of click, tone burst frequency, polarity and rate of stimulus on cochlear microphonics in individuals with normal hearing sensitivity. | | Prof. Animesh Barman |
| 28 | 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 |
| 29 | Rakesh T Kumar | Comparison of auditory working memory in adults with congenital blindness and normal sighted individuals | | Dr.Sreeraj K |
| 30 | Ranjini A | Influence of Music Training on the Age Related Decline in Spatial Hearing and Temporal Processing Ability | | Dr.Sreeraj K |
| 31 | Ravinder Thakur | Cervical and Ocular vestibular evoked myogenic potentials in smokers | | Ms. Mamatha N.M |
| 32 | 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 |
| 33 | Sachin B | Effect of smoking on high frequency Distortion Product Otoacoustic Emissions | | Ms. Mamatha N.M |
| 34 | 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 |
| 35 | Shreyas S Ram | Prevalence of individuals diagnosed to have CAPD for a period of two years at AIISH ( June 2017 to July 2019 | | Dr. Chandni Jain |
| 36 | Srividya S | Sentence identification in presence of speech and music masker among musicians and non-musicians | | Dr. Ajith Kumar U |
| 37 | Sushma C | Comparison of subjective benefit of directional microphone in high cost and low cost digital hearing aids in noise | | Dr. Geetha C |
| 38 | Swati Goyal | Effect of age and gender on auditory stream segregation in adults with normal hearing sensitivity | | Dr. Prashanth Prabhu |
| 39 | Tanuja M.N | Comparison between auditory working memory, temporal resolution, and auditory closure in individuals with type 2 diabetes mellitus. | | Dr. Prawin Kumar |
| **Speech Language Pathology** | | | | |
| 40 | Akshaya Krishnan | Self-harm in persons with aphasia and their caregivers | Dr. Goswami, S. P. | |
| 41 | Anju, R. | Empirical observation on grammatical and lexical development by story re-telling task in primary school children | Dr. Venkateshan, S. | |
| 42 | Ankitha, S. | Non-word repetition skills in adults who stutter | Dr. Sangeetha, M | |
| 43 | Anuroopa, K. S. | Vocal fatigue in professional theatre artists as quantified by vocal fatigue index-version 2 | Dr. Yeshoda, K. | |
| 44 | Apoorva Pant | Phonological encoding abilities in the second language (L2) among bilingual adults who stutter | Dr. Sangeetha, M. | |
| 45 | Archana, U. | Assistive Stuttering Interface-Adults | Dr. Anjana B. Ram | |
| 46 | Binusha, S. | Comparison of Madhyasthayi and Tharasthayi between Carnatic classical singers with and without vocal fatigue | Dr. Santosh, M. | |
| 47 | Delna Dominic | A comparative study on the effect of animated and static pictures on the naming abilities in children with hearing loss | Dr. Ajish K. Abraham | |
| 48 | Devi Vijayalakshmi | Immediate and long term effects of lip-trill exercise on voice parameters in phononormic individuals | Dr. Rajasudhakar, R. | |
| 49 | Dibya Aryal | Effect of phonological and morphological factors on speech disfluencies in Nepali speaking adults who stutter | Dr. Santosh, M. | |
| 50 | Fathima Nida | Socio-cultural adaptation of unhelpful thoughts and beliefs about stuttering scales in Kannada | Dr. Santosh, M. | |
| 51 | Hima Bindhu, V. K. B. | Phonological encoding abilities in first language of Kannada-English bilingual adults who stutter | Dr. Sangeetha, M. | |
| 52 | Hina Fathima Fazal Khan | Development of linguistic profile test for Urdu speaking children in the age range of 6-16 years- an adaptation | Dr. Jayashree C. Shanbal | |
| 53 | Jasper Princess. V | Working memory assessment in healthy elderly individuals with different educational background using distinct (semback) linguistic processing ability | Dr. Hema, N. | |
| 54 | Kranti Acharya | Acoustic characteristics of vowels in children with cochlear implants in Nepali | Dr. Sreedevi, N. | |
| 55 | Mohammed Nadeer Musthafa | Disability in person with total laryngectomy: a WHODAS 2.0 perspective | Dr. Freddy Antony | |
| 56 | Monika Tetwal | Quality of Life in Parents of children with Autism Spectrum Disorders in Indian context | Dr. Jayashree C Shanbal | |
| 57 | Nayana Karat | Acoustic voice quality index (AVQI) in Carnatic singers | Dr. Jayakumar, T. | |
| 58 | Nayanika Ghosh | Prolonged effect of SOVT on phononormals: straw phonation technique | Dr. Yeshoda, K. | |
| 59 | Neeraja Sunil | Taste Perception in Individuals with Diabetes Mellitus Type II | Dr. Swapna, N. | |
| 60 | Neha Yadav | Development of Hindi language test for children in the age range of 3 to 6 years-an adaption | Dr. Jayashree C. Shanbal | |
| 61 | Parnika, M. | Assistive Stuttering Interface-Children | Dr. Anjana B. Ram | |
| 62 | Pauline Gracia | Acoustic voice quality index (AVQI) in hindustani singers | Dr. Jayakumar, T. | |
| 63 | Prasanna, S. | Neurophysiological assessment (ERP-p300) of individuals with broca’s aphasia: pre-therapy period | Dr. Hema, N | |
| 64 | Reshma, O. | Relationship between nasalence and acoustic voice quality index (AVQI) | Dr. Jayakumar, T. | |
| 65 | Riddhi Wadhwa | Syntactic working memory in person with aphasia | Dr. Goswami, S. P. | |
| 66 | Rishisha Lyngkhoi | Comparison of vowel space in two dialects of Khasi | Dr. Sreedevi, N. | |
| 67 | Roja Rani | Effect of effortful swallow training on lingual-labial strength and endurance and swllowing capacity in typical young adults | Dr. Swapna, N. | |
| 68 | Sabin Sharma Duwadi | Ultrasound Study of the Retroflex Plosives of Nepali Language | Dr. Yeshoda, K. | |
| 69 | Sarah Elsa Abraham | Scale for assessment of screen time exposure (SASTE) in typically developing children | Dr. Venkateshan, S. | |
| 70 | Sashirekha, N. | Body mass index and voice parameters in indian females: a correlational study | Dr. Rajasudhakar, R. | |
| 71 | Sivaranjani, P. | Cognitive flexibility in high school children with and without learning disability | Dr. Venkatesan, S. | |
| 72 | Sreerenthu S. Vishwan | Neurophysiological assessment (P300) of individuals with aphasia at pre-therapy and post-therapy | Dr. Hema, N. | |
| 73 | Sudharsana, S. | Temporal characteristics of speech in children with speech sound disorder | Dr. Sreedevi, N. | |
| 74 | Sundareswari Pon | Acquisition and retention of nonwords in adults with and without stuttering | Dr. Swapna, N. | |
| 75 | Swaliaha Shahama | Adaption and validation of the prospective and retrospective memory questionnaire to Malyalam | Dr. Goswami, S. P. | |
| 76 | Sweekriti | Variability in stuttering across tasks and its relationship with social anxiety | Dr. Freddy Antony | |
| 77 | Syeda Sameera Taj | Voice characteristics of Uluma | Dr. Rajasudhakar, R. | |

**Table 4: Ongoing Postgraduate Research**

|  |  |  |  |
| --- | --- | --- | --- |
| **SL. No.** | **Candidate** | **Topic** | **Guide** |
| **Audiology** | | | |
| 1 | Aashish Sharma | Listening habits of young adults during lockdown: A survey | Dr. Geetha C |
| 2 | Abhishek Umashankar | The light cupula phenomenon: A systemic review | Dr. Animesh Barman |
| 3 | Adithya S.S | Canalith repositioning maneuvers for treatment of Posterior semicircular canal: A Systematic review | Dr. Niraj Kumar Singh |
| 4 | Aiza Fatima Raza | Indicators for cochlear implantation in individuals with auditory neuropathy spectrum disorders: A systematic review. | Dr. Prashanth Prabhu P. |
| 5 | Aman Kumar | Prevalence and Characteristics of hearing loss in older adults registered at AIISH. | Ms. Mamatha N.M. |
| 6 | Anju Sara Eby | A Survey on Awareness about Various Audiological Conditions in Students and their Classroom Management amongst Teachers in Kerala | Dr. Chandni Jain |
| 7 | Ankit Kumar Lohani | A tutorial on vestibular evoked myogenic potential | Dr. Sujeet Kumar Sinha |
| 8 | Anshuman Yadav | Speech Perception Outcomes using Bone Conduction Implants: Systematic review | Dr. Prawin Kumar |
| 9 | 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 |
| 10 | Ariya Jayan | Speech Perception Outcomes in Children using Auditory Brainstem Implants: Systematic Review | Dr. Prawin Kumar |
| 11 | 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 |
| 12 | Atul P.R | Sudden sensorineural hearing loss- Literature review | Dr. Rajalakshmi K |
| 13 | Bhagyashree Ishwar H | Trend analysis of Hearing aids dispensed under HDDU scheme at AIISH | Dr. Sandeep M |
| 14 | Chethan K | Auditory brainstem responses in acoustic neuroma - a systematic review | Dr. Ajith Kumar U |
| 15 | Chitra. K | Systematic Review of music perception in children with cochlear implant | Dr. Devi N |
| 16 | Dilli Raj Paudel | Prevalence and Characteristics of Congenital Hearing Loss in Children: A Register Based Study. | Ms. Mamatha N.M. |
| 17 | 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 |
| 18 | Freddy Jose | Prevalence and Characteristics of Tinnitus in Individuals with Normal Hearing. | Ms. Mamatha N.M. |
| 19 | Hasla Hamza Valiyadan | A Systemic Review on Effectiveness of Early Cochlear implantation on Speech perception and Quality of life | Dr. Chandni Jain |
| 20 | Jijinu P.S | Utility of Video Head Impulse test in Meniere's Disease: a systematic review. | Dr. Sujeet Kumar Sinha |
| 21 | Kajol N | Effectiveness of online teaching in training prospective speech-language pathologists and Audiologists | Dr. Sandeep M |
| 22 | Kruthika S | Evidence of synaptopathy in individuals with tinnitus: A systematic review. | Dr. Prashanth Prabhu P |
| 23 | Meena Rao | Noise Induced Hearing Loss: Clinical Presentation | Dr. Sreeraj K |
| 24 | Mridul Pratik Khakha | Listening to music with hearing aids - A systematic review | Dr. Manjula P |
| 25 | Muthu Kartick L | Application of ICF framework for Noise induced hearing loss | Dr. Sreeraj K  Co- Guide:  Dr. Nisha K.V |
| 26 | Namitha Jain | Prevalence of Auditory Hallucinations in Individuals with Hearing Impairment | Dr. Sreeraj K |
| 27 | Prabuddha Bhatarai | Speech Perception Outcomes in Children using Cochlear Implants: Systematic Review | Dr. Prawin Kumar |
| 28 | Prakruthi M.K | Auditory training strategies for auditory processing disorder: A review | Dr. Devi N |
| 29 | Prateek L | Audiological profiling and voice characteristics in congenital and late onset auditory neuropathy spectrum disorder | Dr. Nisha K.V  Co- Guide:  Dr. Prashanth Prabhu P |
| 30 | Praveen Prakash | Audiologic management of Auditory neuropathy spectrum Disorder in Children - A systematic review of the Literature | Dr. Rajalakshmi K |
| 31 | Rachna Hanji | Profiling listening needs of individuals with hearing impairment | Dr. Manjula P |
| 32 | Sahana T.S | Prevalence and causes of hearing loss in Mysore District- A retrospective study | Dr. Rajalakshmi K |
| 33 | Saranya Arya Mundayoor | Role of Temporal Cues in Speech Perception – A Systematic Review | Dr. Ajith Kumar U |
| 34 | Shejal Kasera | Canalith repositioning maneuvers for treatment of Lateral semicircular canal: A Systematic review | Dr. Niraj Kumar Singh |
| 35 | Shingi Dipti Santoshk | Online Survey of hearing help-seeking behaviour in parents of children with hearing loss | Dr. Sandeep M |
| 36 | Shradha Manandhar | A tutorial on repositioning maneuvers for  benign paroxysmal positional vertigo | Dr. Sujeet Kumar Sinha |
| 37 | 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 |
| 38 | Suryakant Yadav | ABR findings in Hidden hearing loss: A systemic review | Dr. Animesh Barman |
| 39 | Vidya Gowda S.L | Attitude and knowledge of teachers on education for children with Hearing Impairment: A systematic review | Dr. Devi N |
| 40 | Zohra Nafees Ghori | Development of Quality of life questionnaire for children using hearing devices in English and Kannada | Dr. Geetha C |
| **Speech Language Pathology** | | | |
| 41 | Akshit Anand | Development of a questionnaire to assess psychosocial issues in professional voice users | Mr. Freddy Antony  Co-Guide: Yeshoda, K. |
| 42 | Amritha Varshini, S. | Public education material for professional voice users- teachers, singers, and radio jockey | Dr. Jayakumar, T. |
| 43 | Anima Goyal | Development of a minimal pair manual in Hindi for the intervention of children with speech sound disorders | Dr. Sreedevi, N. |
| 44 | Ashiyath Anshaba, P. | Development of activity resource manual for group therapy in children who stutter | Dr. Sangeetha, M. |
| 45 | Architaa, R. S. | Analysis of scholarly communication on voice: a scientometric study | Dr. Rajasudhakar, R. |
| 46 | Ashitha Paul, K. | Manual for training pragmatic language skills through social stories | Dr. Jayashree C. Shanbal |
| 47 | Ashiya Shaima | Perspectives of students in tele-service delivery in speech-language pathology | Dr. Rajasudhakar, R. |
| 48 | Bandhan Kumar Pradhan | Use of technology in the treatment of aphasia: a systematic review | Mr. N. Manohar  Co-Guide: Dr. Anjana. B. Ram |
| 49 | Biraj Bhattarai | Derived measures of vowel acoustics in children: a systematic review | Dr. Sreedevi, N. |
| 50 | 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. |
| 51 | Christabale Jane | Effect of phonological and morphological factors on the frequency of stuttering in children who stutter - a systematic review | Dr. Santosh, M. |
| 52 | Gayathri | Home training program for children with cleft lip and palate | Dr. Pushpavathi, M. |
| 53 | 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. |
| 54 | Joanna, K. B. | Computerized Manual for training Syntax in children. | Dr. Jayashree C. Shanbal |
| 55 | Joel Joseph | Clinical tutorial on cluttering for speech-language pathologists | Dr. Sangeetha, M. |
| 56 | Kapasi Arva Shabbirbhai | Development of a manual in Gujarati for the intervention of children with speech sound disorders using minimal pairs | Dr. Sreedevi, N. |
| 57 | Kavitha, J. | Development of cognitive linguistic intervention manual in kannada for persons with dementia: an adaptation of CLIM- Malayalam | Dr. Goswami, S. P. |
| 58 | Keneitsolo-U Koza | Acoustic analysis of lexical tone in two Naga languages | Dr. Santosh, M. |
| 59 | Kusuma, M. | Development of a resource manual in Kannada for training  phonotactic structure in children with apraxia of speech | Dr. Swapna, N. |
| 60 | Madhusudhan, B. M | Assessment of voice characterstics through virtual mode | Dr. Ajish K. Abraham  Co-Guide: Dr. Jayakumar, T. |
| 61 | Mallika Nikita Lewis | Knowledge and Use of Visual Supports among Speech-Language Pathologists for Children with Autism Spectrum Disorder | Dr. Anjana B. Ram |
| 62 | Mansi Karnad | School administrators’ understanding of the rights of children with disabilities and their readiness for inclusion - Indian survey | Dr. Anjana B. Ram |
| 63 | Mohamed Abuthalha, M. | An objective method of quantifying vocal breathiness in normal and simulated conditions- a preliminary study | Dr. Yeshoda, K. |
| 64 | Niranjana, P. | Exploration of vocal fatigue in trained carnatic singers using vocal fatigue index-version 2 (VFI-2) | Dr. Yeshoda, K. |
| 65 | Patel Siddhi Deepak | Development of a manual for syntactic processing activities for persons with aphasia | Dr. Hema, N. |
| 66 | Pradyumna, M. | Awareness and perception of developmental milestones of children upto 3 years of age among parents in urban setup | Dr. Jayashree C. Shanbal |
| 67 | Priyanka, N. | Development of multi-media manual for school teachers on voice and its disorders | Dr. Reuben T. Varghese  Co-Guide: Dr. Rajasudhakar, R. |
| 68 | Rini, K. R. | Development of vocal education material for individuals with puberphonia | Dr. Jayakumar, T. |
| 69 | Rushali Hemantkumar Thakar | Development of cognitive linguistic intervention manual in hindi for persons with dementia: an adaptation of CLIM- Malayalam | Dr. Goswami, S. P. |
| 70 | Shinsi Binth, E. K. | Clinical tutorial on neurogenic stuttering for speech-language pathologists | Dr. Sangeetha, M. |
| 71 | Sri Ranjani, V. | Acoustic voice quality index in young phononormals using SOVT- frication exercise: comparison of pre-post training | Dr. Yeshoda, K. |
| 72 | Sumathi, N. | Development of tasks and activities for cognitive training of adults with cognitive impairments | Dr. Venkatesan, S.  Co-Guide: Dr. Hema, N. |
| 73 | Syam Krishna, V. | Characteristics of clients voice disorders at AIISH: an ex post facto study | Dr. Rajasudhakar, R. |
| 74 | Tanvi Rajesh Sanghavi | Assessment of pharyngeal dysphagia through fiberoptic endoscopic evaluation of swallowing: a tutorial | Dr. Swapna, N. |
| 75 | Thanuja, M. | Self-rated and clinician-rated parameters of speech effort in stuttering | Dr. Anjana B. Ram |
| 76 | Thirumanjari, K. | Development of manual for visuo-spatial organization activities for persons with brain damage | Dr. Hema, N. |
| 77 | 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. |
| 78 | Vijayeshwari, S. | Effect of phonological and morphological factors on the frequency of stuttering in adults who stutter - a systematic review | Dr. Santosh, M. |
| 79 | Vyshna Babu, T. | Development of vocal education material for older adults in Malayalam | Dr. Jayakumar, T. |
| 80 | Yaazhini, O. D. | Development of treatment manual for oral dysphagia | Dr. Swapna, N. |
| 81 | Zainab Ismail | Development of cognitive linguistic intervention manual in english for persons with dementia: an adaptation of CLIM- Malayalam | Dr. Goswami, S. P. |

1. **Scientific Presentations**

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

1. Amulya P. Rao, Prathima, S. & Sreedevi, N. (2021). *Frequency of consonant production errors in children with speech sound disorder: a retrospective-descriptive study*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
2. Chandni Jain, Devi, N., Jyothi, S. & Divya Mary Jose (2021). *Parent’s satisfaction on tele-listening training for children with hearing impairment during COVID-19*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
3. Devaraju, D. S., Kumar, U.A. & Maruthy, S. (2021). *Altered neural mechanisms during audio-visual perception in adults who stutter*. Paper presented at the 12th Oxford Dysfluency Conference (Online).
4. Geetha, C., Chandni Jain & Keerthi, S.P. (2021). *Relationship between auditory processing abilities and aided speech perception in noise in elders*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
5. Kavya, V., Swapna, N., Mekhala, V. G., Prabhu, P., & Barman, A. (2021). *Profiling the linguistic patters in children with specific language impairment*. Poster Presented at the 3rd Convention of Speech and Hearing Association of India, West Bengal Branch (SHAIWBCON), Kolkata.
6. Kavya, V., Swapna, N., Mekhala, V. G., Prabhu, P. & Barman, A. (2021). *Oral and verbal praxis in impaired language learners*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India West Bengal Branch (SHAIWBCON), Kolkata.
7. Murthy, Kavya S. & Shanbal, Jayshree C. (2020). *Tele-Orientation and awareness on communication disorders during COVID 19: innovative methods to reach the unreached*. Paper presented at the India International Science Festival (IISF) (Online).
8. Ranjini, V., Rushali, T., Prashanth, P. P., Abhishek, B. P. & Pushpavathi, M. (2021). *Utilization of social media as a tool to create awareness about communication disorders: A content analysis*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India West Bengal Branch (SHAIWBCON), Kolkata.
9. Rushali Thakar, & Prathima, S. (2021). *Speech-language and swallowing abilities in lance-adams syndrome: a case report*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India West Bengal Branch (SHAIWBCON), Kolkata.
10. Sangeetha, M., Jyothi, R., & Anu, P. (2021). *Effect of word class on disfluencies of monolingual and bilingual school-age children who stutter*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
11. Shalini, M. & Shanbal, Jayshree C. (2020). *Innovative technology for tele-speech therapy during COVID-19: a single case study of a person with aphasia*. Paper presented at the India International Science Festival (IISF) (Online).
12. Srikar, Malavi & Shanbal, Jayshree C. (2020). *Innovative technology for online speech therapy during COVID-19: a single case study of a child with rhotacism in a multilingual context*. Paper presented at the India International Science Festival (IISF) (Online).
13. Srushti S, Pushpavathi, M and Gopi Sankar, R. (2021). *Diagnostic accuracy of acoustic voice quality index v.02.03 to discriminate across the auditory perceptual based voice severity*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
14. Sushma Manjunath and Pushpavathi, M. (2020). *Acoustic analysis of glottal stops in children with cleft lip and palate: a preliminary study*. Poster presentation for ASHA conference, USA.
15. Sushma, M. & Pushpavathi, M. (2021). *Impact of articulation therapy on perceptual characteristics of bilabial in children with repaired cleft lip and palate*. Paper presented at the 3rd International Conference of Speech and Hearing Association of India, West Bengal branch (SHAIWBCON), Kolkata.
16. Thanuja, D. & Shanbal, Jayshree C. (2020). *Innovative technology for tele-rehabilitation during COVID-19: a single case study of a child with speech sound disorder*. Paper presented at the India International Science Festival (IISF) (Online).
17. Veerabhadrappa, R. C., Vanryckeghem, M. & Maruthy, S. (2021). *Adaptation and validation of the speech situation checklist - emotional reaction (SSC-ER) for Kannada-speaking school-age children who do and do not stutter*. Paper presented at the 12th Oxford Dysfluency Conference (Online).
18. Veerabhadrappa, R. C. & Maruthy, S. (2021). *Efficacy of prolonged speech and pause and talk techniques in school-aged children who stutter: a comparison. Paper* presentedat the 12th Oxford Dysfluency Conference (Online).
19. Vijetha, Palnaty (2021). *Teachers’ knowledge about hearing impairment and referral services in Ooty, Tamil Nadu*. Paper presented at the National Conference on Teacher Education in the 21st Century: Vision and Action, Regional Institute of Education, NCERT, Bhopal.
20. **Seminar/Conference Proceedings**

The following scientific papers of the papers faculty, staff and students of the Institute were published in the seminars / conference proceedings.

1. Abraham, Ajish K., Pushpavathi, M., Sreedevi, N., Navya, A. & Prasanna, S. R. M. (2020). Spectral moment and duration of burst of plosives in speech of children with hearing impairment and typically developing children – a comparative study. *Proc. Interspeech 2020* (pp.4981-4985). DOI: 10.21437/Interspeech.2020-1805.
2. Abraham, Ajish K., Pushpavathi, M., Sreedevi, N. & Navya, A. (2019). Exploring acoustic measures of vowels (VSA, FCR3 VAI4, VFR) in children with hearing impairment.  In Calhoun, Sasha, Paola, Escudero Marja Tavain & Warren, Paul (Eds.), *Proceedings of the 19th International Congress of Phonetic Sciences*, (pp. 1064-1068). Melbourne, Australia.
3. Nandeesha, B. (2021). Emerging trends in library services. In Rathinasabapathy, G., Veeranjaneyulu, K. & Srinivas, V. (Eds.) *International Conference Proceedings on Agriculture Librarians and User Community (ICALUC-2021) on Management of Knowledge Resource Centres in the Networked Digital Environment: Trends, Challenges and Opportunities* (pp. 211-217). University of Agriculture Sciences, GKVK, Bangalore.
4. Pushpavathi M., Abraham A. K., Mahadeva Prasanna S. R., Girish, K. S. (2021) Perceptual judgments of resonance, speech understandability, and speech acceptability in children with repaired cleft palate across words and sentences. In: Singh M., Rafat Y. (Eds) *Recent Developments in Acoustics. Select Proceedings of the 46th National Symposium on Acoustics*. (pp. 75-83). Springer, Singapore. <https://doi.org/10.1007/978-981-15-5776-7_7>.
5. Pushpavathi M., Kavya V., Akshatha V. (2020) Impact of timing of surgery on the development of speech in toddlers with repaired cleft lip and palate. In: Singh M., Rafat Y. (Eds) *Recent Developments in Acoustics. Select Proceedings of the 46th National Symposium on Acoustics*. Springer, Singapore. <https://doi.org/10.1007/978-981-15-5776-7_10>
6. **Scientific Publications**

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

1. Abraham, A.K. & Ravishankar, M.S. (2020). A case study of acoustic intervention in classrooms. *Building Acoustics*. <https://doi.org/10.1177/1351010X20975765>.
2. Antony, P.J. & Barman, A. (2020). Effect of sinusoidally amplitude modulated broadband noise stimuli on stream segregation in individuals with sensorineural hearing loss. *Auditory Vestibular Research*. 29(4), 209-219.
3. Anuprasad, S., Krishan, R., Pradeep, P.N., Ananthanarayan, K., Arun. (2021). Evaluation of auditory spectral resolution abilities in children with benign epilepsy with centrotemporal spikes using spectral temporally modulated ripple test. *Epilepsy & Behavior*, 114, <https://doi.org/10.1016/j.yebeh.2020.107620>
4. Aparna, V. S., Pushpavathi, M. & Krishnamurthy, B. (2020). Language skills and cognitive linguistic skills in children with repaired cleft palate.  *International Journal of Health Science and Research*, 10(3), 32-38.
5. Barman, A., Prabhu. P., Narayanan, S., Vijayan, K. & Mekhala, V.G. (2021). Electrophysiological findings in specific language impairment: a scoping view. *Hearing Balance and Communication*, 19(1), 26-30.
6. Barman, A., Prabhu, P., Mekhala, V. G., Kavya, V. & Swapna, N. (2020). Auditory processing in children with specific language impairment: a FFR based study. *Indian Journal of Otolaryngol Head Neck Surgery*, <https://doi.org/>10.1007/s12070-020-02127-x.
7. Basaiahgari, N. & Prabhu, P.P. (2021). Effect of chemical exposure –diammonium hydrogen phosphate along with noise exposure on hearing – a case study. *ISAM Journal*, 14-17.
8. Basiahgari, N. & Prabhu, P.P. (2021). Audiological assessment in a young adult with hyperacusis – a case report. *ISAM Journal*, 44-46.
9. Bhat, P. & Krishana, R. (2020). Pitch coding in vocalists and non-musicians to Carnatic music stimuli: a frequency following response (FFR) study. *International Journal of Health Sciences and Research*, 10, 16-21.
10. Chaudhary, C., Maruthy, S., Guddattu, V. & Krishnan, G. (2021). A systematic review on the role of language - related factors in the manifestation of stuttering in bilinguals. *Journal of Fluency Disorders*, https: // doi.org/ 10.1016/ j.jfludis .2021.105829.
11. Chandrasekhar, H.M., Veena, K. & Sreedevi, N. (2020): Investigation of diffeent time-frequency representation for intelligibility assessment of dysarthric speech. *IEEE Transanctions on Neural Systems and Rehabilitation Engineering*, 28(12), 2880-2889. doi: 10.1109/TNSRE.2020.3035392.
12. Dafiah, P.M. & Swapna, N. (2020). Variations in the amplitude and duration of hyolaryngeal elevation during swallow: Effect of sour and carbonated liquid bolus. *Physiology & Behavior*, 224, https://doi.org/10.1016/j.physbeh.2020.113028.
13. Darshan, H.S., Goswami, S.P. (2020). Effect of distance between marker agreement dependencies on sentence comprehension in persons with aphasia. *Annals of Indian Academy of Neurology,* 23(8), 149-155.
14. Deepak, P., & Goswami, S.P. (2020). Effectiveness of semantic-based treatment in persons with aphasia. *Annals of Indian Academy of Neurology*. 23(8), 123-129.
15. Deepak, P. & Goswami, S.P. (2020). Effect of semantic cueing for verbs and its thematic role approach on priming of verbs and its thematic roles in persons with aphasia. *Journal of Indian Speech and Hearing Association*, 34, 273-283. DOI: 10.4103/jisha.JISHA\_6\_20
16. Devadas, U., Vinod, D. & Maruthy, S. (2020). Immediate effects of straw phonation in water exercises on parameters of vocal loading in carnatic classical singers. *Journal of Voice*, <https://doi.org/10.1016/j.jvoice.2020.11.007>
17. Devraju, N.B. & Upadhyay A. K. (2020). Impact of Covid-19 on school readiness of children with special needs. *Journal of Disability Management and Rehabilitation*, 6(2), 47-52.
18. Dhivya, D. & Upadhyay, A.K. (2020). Use of computer assisted instruction in developing memory skill for preschool children with hearing impairment. *Journal of Disability Management and rehabilitation*, 6(1), 10-16.
19. Dhrruvakumar, S., Shambhu, T., & Konadath, S. (2021). Assessment of hidden hearing loss in individuals exposed to occupational noise using cochlear, neural, temporal functions and quality of life measures. *Indian Journal of Otolaryngology and Head & Neck Surgery*. https://doi.org/10.1007/s12070-021-02373-7.
20. Dwarakanath, V.M. & Manjula, P. (2020). Influence of working memory and speech perception ability on hearing aid use and benefit in older adults. *Journal of Hearing Science*, 10(4), 27-32**.**
21. Dwarakanath, V.M., Neelamegarajan, D., Fakruddin, D.B. & Basaiahgari, N. (2021). Hearing aid programming satisfaction measure during Covid 19. *ISAM Journal*, 24-29.
22. Fei, Z., Manchiah, K.V., Claire, L.S., Berth, D., Jones, L., Brandreth, M., Rajalakshmi, K. & Goodwin, R. (2015). Exploring the influence of culture on hearing help-seeking and hearing-aid uptake. *International Journal of Audiology*, 54(7), 435-443. <https://doi.org/10.3109/14992027.2015.1005848>.
23. Gopalakrishnan, I.K. & Venkatesan, S. (2020). Risk factors associated with neurodevelopment disorders in high socioeconomic status families: brief Indian analysis. *Innovare Journal of Education*, 8(2), 1-11.
24. Gopalakrishnan, I.K. & Venkatesan, S. (2020). Role of executive functions/working memory in parenting children: a narrative study. *Indian Journal of Applied Research*, 10(9), 1-3.
25. Gopalakrishnan, I.K. & Venkatesan, S. (2020). Factors influencing parental decisions of participants in neuropsychological study of neurodevelopment disorders. *Indian Journal of Mental Health*, 7(3), 263-265.
26. Gopalakrishnan, I.K. & Venkatesan, S. (2020). Working memory as endophenotype in first-degree relatives of children with neurodevelopment disorders: an Indian account. *Journal of Journal of Psychology*, 11(1-2), 1-11. DOI: 10.31901/24566292.2020/11.1-2.197.

1. Gopalakrishnan, I.K. & Venkatesan, S. (2020). A bibliometric review of executive function as cognitive endophenotypes in parents of children with neurodevelopmental disorders. *Disability, CBR & Inclusive Development*, 31(2), 92-113. http://doi.org/10.47985/dcidj.371.
2. Goswami, S.P. (2020). Rights of persons with disability act: a boon for persons with aphasia. *Annals of Indian Academy of Neurology*, 23(8), 51.
3. Hema N., Neelamegarajan, D., & Jesnu Jose Benoy. (2021). Investigating distinct semantic processing ability in individuals with dementia using the n-back task. *Aphasiology*, <https://doi.org/10.1080/02687038.2020.1868394>.
4. Hrishtha, V. M., Sharma, V., Ali, N.M., Jose, J. & Prabhu, P. (2020). Does martial art training improve binaural integration? - a preliminary study. *The Journal of Acoustical Society of India*, 47(1), 1-5.
5. Iyer, K.G. & Venkatesan, S. (2020). Working memory as Endophenotype in first-degree relatives of children with neurodevelopment disorders: an Indian account. *Journal of Psychology*, 11(1-2), 1-11. DOI: 10.31901/24566292.2020/11.1-2.197.
6. Jain, C., Ghosh, P. V., Chetak, K. B., & Aishwarya, L. (2020). Maturation of speech perception in noise abilities during adolescence. *International Journal of Pediatric Otorhinolaryngology*, 139, <https://doi.org/10.1016/j.ijporl.2020.110459>.
7. Jain, C. & Joshi, K. (2020). Test-retest reliability of various psychoacoustic measures using the maximum likelihood procedure. *Journal of Hearing Science*, 10(2), 55–59.
8. Jayakumar, T., Benoy, J. J. & Yasin, H. M. (2020). Effect of age and gender on acoustic voice quality index across lifespan: a cross-sectional study in Indian population, *Journal of Voice*, <https://doi.org/10.1016/j.jvoice.2020.05.025>
9. Jithin, R. B. (2020). Effect of modality and acoustic enhancements on feature transmission index in individuals with auditory neuropathy spectrum disorder. *International Journal of Health Sciences and Research*, 10, 53-62.
10. Karuppannan, A. & Barman, A. (2021). Evaluation of wideband absorbance tympanometry in adults with abnormal positive and negative middle ear pressure. *Journal of Hearing Science*, 10(4), 40-47.
11. Karuppannan, A. & Barman, A. (2021). Wideband absorbance tympanometry: a novel method in identifying otosclerosis. *European Archives of Oto-Rhino-Laryngology*. <https://doi.org/10.1007/s00405-020-06571-x>.
12. Karuppannan, A. & Barman, A. (2021). Wideband absorbance pattern in adults with otosclerosis and ossicular chain discontinuity. *Auris Nasus Larynx*, 48(4), 583-589. DOI: [10.1016/j.anl.2020.10.019](https://doi.org/10.1016/j.anl.2020.10.019).
13. Konadath, S., Raveendran, R., & Krishna, Y. (2020). Perception of speech stress in children with hearing impairment. *International Journal of Pediatric Otorhinolaryngology*, 140, <https://doi.org/10.1016/j.ijporl.2020.110495>.
14. Krishna, Y., Raveendran, R. & Konadath, S. (2020). Perception of vocal emotional prosody in children with hearing impairment. *International Journal of Pediatric Otorhinolaryngology,* 137(3). <https://doi.org/10.1016/j.ijporl.2020.110252>.
15. Krishna, Y. & Raveendran, R. (2020). Awareness of voice symptoms and gender predisposition in south Indian Carnatic singers using the singing voice handicap index. *Research & Reviews: A Journal of Neuroscience*, 10(2), 1-6.
16. Kumar, P., Sanju, H.K. & Singh, N.K. (2020). Neural representation of consonant–vowel transition in individuals with cochlear hearing loss and auditory neuropathy spectrum disorder. *European Archives of Otorhinolaryngol,* 277, 2739–2744. <https://doi.org/10.1007/s00405-020-06017-4>.
17. Kumar, P., Singh, N.K., Sanju, H.K., & Kaverappa, G.M. (2020). Feasibility of objective assessment of difference limen for intensity using acoustic change complex in children with central auditory processing disorder. *International Journal of Pediatric Otorhinolaryngology*, 137, <https://doi.org/10.1016/j.ijporl.2020.110189>.
18. Kumaraswamy, P.T., Shambulingegowda, A., Neelanmegarajan, D. (2020). Effect of canal widening (type I tympanoplasty) on hearing sensitivity. *International Journal of Otorhinolaryngology Head and Neck Surgery*, 6, 2086-93.
19. Kumar, P., Sanju, H. M., Oovattil, R. H., Ganapathy, M. K., & Singh, N. K. (2020). Utility of acoustic change complex as an objective tool to evaluate DLI in cochlear hearing loss and auditory neuropathy spectrum disorder. *American Journal of Audiology*, 29, 375–383. DOI: 10.1044/2020\_AJA-19-00084.
20. Kumar, P., Sanju, H. M. & Singh, N. K. (2020). Neural encoding of consonant–vowel transition in children with central auditory processing disorder. *Journal of Hearing Science*, 10(2), 60–64.
21. Kumar, P., Singh, N. K., Ganapathy, M. K., Sanju, H. & Apeksha, K. (2020). Coding of consonant–vowel transition in children with central auditory processing disorder: an electrophysiological study. *European Archives of Oto-Rhino-Laryngology*, https://doi.org/10.1007/s00405-020-06425-6.
22. Kumar P., Singh, N.K., Apeksha, K., Ghosh, V., Kumar, R.R., Muthaiah, B.K. (2021). Auditory and vestibular functioning in individuals with type-2 diabetes mellitus: a systematic review. *International Archives of Otorhinolaryngology*, https://doi.org/10.1055/s-0041-1726041.
23. Lakshmi, A. & Jain, C. (2020). Effect of hormones on auditory processing abilities in females. *Journal of Indian Speech Language Hearing Association*, 34(2), 47-51.
24. Manchaiah, V., Vinay. & Thammaiah, S. (2021). Psychometric properties of the Kannada version of the international outcome inventory for hearing aids. *International Journal of Audiology,* <https://doi.org/10.1080/14992027.2021.1884910>.
25. Manjula, P.V. & Ramanakumari, P.V. (2020). Profile of parameters of intelligence in preschool children with hearing impairment. *International Journal of Engineering, Applied and Management Sciences Paradigms (IJEAM)*, 54(11), 34-41.
26. Megha & Maruthy, S. (2020). Effect of hearing aid acclimatization on speech-in-noise perception and its relationship with changes in auditory long latency responses. *American Journal of Audiology*, 29(4), 774-784.
27. Mendhakar, A., Sneha, K.C., Devi, N. & Renuka, C. (2020). Hearing aids of the future: a simulation study. *International Journal of Biomedical Engineering*, 6(1), 18–23.
28. Nallamuthu, A., Boominathan, P. R., & Mariswamy, P. (2020). A peek into  
    contributing factors and impact of voice problems among teachers in Chennai: a bio psychosocial perspective. *Indian Journal of Public Health Research & Development*, 11(4), 18-23.
29. Nallamuthu, Aishwarya. Boominathan, Prakash. Arunachalam, Ravikumar & Pushpavathi M. (2021).  Outcomes of vocal hygiene program in facilitating vocal health in female school teachers with voice problems. *Journal of Voice,* <https://doi.org/10.1016/j.jvoice.2020.12.041>
30. Neelamegaran, D., Sridhar, S. & Vinayagar, P.T. (2021). Comparison of envelope perception between syllabic and dual compression hearing aid processed Kannada chimeric sentences. *Acta Scientific Otolaryngology*, 3(2), 83-89. DOI:10.31080/ ASOL.2020.03.0173.
31. Nisha, K. V., Sanjana, M., & Rohith, V. S. (2021). Profiles and predictors of auditory functioning in abacus-trained children. *International Journal of Pediatric Otorhinolaryngology,* 142, <https://doi.org/10.1016/j.ijporl.2021.110608>
32. Nisha, K.V. (2020). Applications of electroencephalography (EEG) in neuro-steered hearing aids: a scoping review. *The Journal of Acoustical Society of India*, 47(1), 29-36.
33. Nisha, K.V., Sanjana, Krishna, R. & Prabhu, P. (2021). Profiles and predictors of auditory functioning in abacus trained children. *International Journal of Pediatric Otorhinolaryngology*, 142, 1-12.
34. Pavan, M., Maerin, M., Ramiz, Indira, C.P., Nambi. & Krisha, R. (2019). Perception of temporal fine structure in individuals with normal hearing sensitivity: a comparison of different measures. *Journal of All India Institute of Speech and Hearing*, 38, 47-57.
35. Pavan, Indira, C.P., Nambi, A. & Krishna, R. (2019). Perception of temporal fine structure speech and recovered envelope speech in younger and older adults with normal hearing sensitivity. *Journal of All India Institute of Speech and Hearing*, 38, 58-66.
36. Pebbili, Gopi Kishore, Shabnam, Srushti, Pushpavathi, Mariswamy. Rashmi, Jayaramu, Ramasamy, Gopi Sankar, R. Nethra, Sivaramakrishnan & Shreya, Ghimire Shashish. (2021). Diagnostic accuracy of acoustic voice quality index version 02.03 in discriminating across the perceptual degrees of dysphonia severity in Kannada language. *Journal of Voice*, 35 (1), 159.e11-159.e18.
37. Prabhu, P.P., Shaji, S.R., Vipinan, K.M., Ramanunny, M.V. & Nagaraju, B. (2020). Effect of different blood groups ontympanometric findings and acoustic reflex thresholds. *European Archives of Oto-Rhino-Laryngology*, 277 (12), 3513-3518.
38. Prabhu, P.P., Anish, A.S., Vijayan, G., Shiju, A.M., Shanthala, S.P. & Sreenivas, R. (2021). Audio – vestibular findings in an adult with Arnold chiari malformation. *Journal of Hearing Science*, 10(4), 85–90. Doi: https://doi.org/10.17430/ JHS.2020.10.4.8.
39. Prakash T.K., Abhilash S. & Devi, N. (2020). Effect of canal widening (type I tympanoplasty) on hearing sensitivity. *International Journal of Otorhinolaryngology and Head and Neck Surgery*, 6(11), 2086-2093. http://dx.doi.org/10.18203/issn.2454-5929.ijohns20204636
40. Priya, M.B. & Preethi, R. (2019). A comparison of grammatical structures in kannada-english bilingual preschoolers. *Journal of All India Institute of Speech and Hearing*, 38, 39-46.
41. Ramanakumari, P.V., & Manjula, P.V. (2020). Study of the effectiveness of computer aided instruction for teaching the concept of place-value to primary school children with hearing impairment. *International Journal of Education and Psychological Research (IJEPR)*, 9(2), 17-22.
42. Sangeetha, M. & Reny, R. (2020). Effect of syllable complexity on speech disfluencies of Kannada speaking adults who stutter. *Journal of All India Institute of Speech and Hearing*, 39, 23-30.
43. Sbahi, Lama, Shanbal, Jayashree C. & Sbahi, Yoursa (2020). The effect of raising learners’ coginition in explicit l2 grammar instruction on their grammatical achievement in English as a foreign langauge. *Journal of Xi’an University of Architecture & Technology*, 12(11), 259-268. https://doi.org/10.37896/JXAT12.11/29727.
44. Sbahi, Lama, Shanbal, Jayashree C. & Sbahi, Yoursa (2020). The use of cognitive strategies by learners of English as a foreign language in Syria with different proficiency levels. *High Technology Letters,* 26(8), 1069-1073.
45. Siddhanna Janai, Shreekanth, T., Chandan, M., Ajish, K. Abraham (2020). Speech -to-speech conversion: an approach to enchance the speech intelligibility of dysarthric speaker. *International Journal of Ambient Computing and Intelligence (IJACI)*, 12 (1), 184-206.
46. Shyam, H.R. & Venkatesan, S. (2021). Visual and verbal neuropsychological functions among students with specific learning disorders. *International Journal of Indian Psychology*, 9(1), 99-108.
47. Singh, N.K. & Firdose, H. (2020). Characterizing the impact of advancing age on 500 Hz tone-burst evoked ocular vestibular evoked myogenic potentials. *European Archives of Oto-Rhino-Laryngology*, https://doi.org/10.1007/s00405-020-06542-2.
48. Singh, N.K., Firdose, H. & Barman, A. (2021). Effect of advancing age on inter-frequency amplitude ratio of ocular vestibular evoked myogenic potentials. *International Journal of Audiology*, <https://doi.org/10.1080/14992027.2021.1893840>.
49. Singh, N.K., Sinha, S., Keshree, N.K., Kothari, S., Kumar, S. & Kumar P. (2021). Relative efficacy of veria and mastoidectomy techniques of cochlear implantation in preservation of sound-induced saccular responses. *International Journal of Audiology*, https://doi.org/10.1080/14992027.2021.1905891.
50. Spoorthy, C., Abhishek, B.P. (2020). Error analysis of novel words learnt through fast mapping and slow mapping methods in young neurotypical children. *International Journal of Communication*, 29(1-2), 88-95.
51. Srikar, V. & Barman, A. (2020). Relationship between speech perception noise and phonemic restoration in noise in individuals with normal hearing. *Journal of Audiology and Otology*, 24(4), 167-173.
52. Srushti, S.  & Pushpavathi, M.  (2019). Acoustic voice quality index for discriminating across normal and different vocal pathological conditions. *Journal of All India Institute of Speech and Hearing*.  38, 16-25.
53. Sugathan, N., & Maruthy, S. (2020). Predictive factors for persistence and recovery of stuttering in children: a systematic review. *International Journal of Speech-Language Pathology*, 1–13. https://doi.org/10.1080/17549507.2020.1812718.
54. Subramanya, K.R. & Upadhyay, A.K. (2020). A survey study on use of story & rhymes on developing listening & speaking skills among children with hearing impairment in preschool. *Journal of Disability Management and Rehabilitation*, 6(1), 5-9.
55. Sushma, M. & Pushpavathi, M. (2019).  Effect of Speech therapy on bilabial production in children with repaired cleft lip and palate. *Journal of All India Institute of Speech and Hearing*.  38, 26-38.
56. Swamy, S.P. & Yathiraj, A. (2020). Manipulation of signal-to-noise ration to compensate for variations in word identification scores due to change in masker. *Journal of All India Institute of Speech and Hearing*, 39(1), 48-56.
57. Swapna, N., Prawin, K.,Bincy, R. Kalam., Anju, V.A. & Arunraj, K. (2020). Diagnostic relevance of primitive reflexes in high-risk newborns: A systematic review. *Journal of Indian Speech Language & Hearing Association*, 34(1), 24-30.
58. Swathy Ravi, Ajish, K. Abraham, Sivaramakrishnan, V., Swapna, N. & Manohar, N. (2020). Analysis of Kannada speaker’s tongue profile for articulatory simulation. *Journal of Child Language Acquisition and Development*, 8(2), 22-35.
59. Udhayakumar, R. & Devi, N. (2020). Comparison of temporal and envelope cues in hearing aids: use of Malayalam language chimeric sentences and two compression strategies*. Journal of Hearing Science*, 10(1), 33–40.
60. Umashankar, A. & Prabhu, P. (2020). Effect of COVID-19 on individuals with hearing impairment in India. *Journal of Clinical and Diagnostic Research*, 14(8), MM01-MM03. DOI: 10.7860/JCDR/2020/45054.13892.
61. Umashankar, A., Lakshmanabharathi, R., Pachaiappan, C., & Prabhu, P.P. (2021). Threshold of octave masking as a tool to explain cochlear nonlinearity. *Auditory and Vestibular Research,* 30(1), 1-6**.**
62. Upadhyay, A.K., Vijetha, P. & Subramanya, K.S. (2020).Efficacy of developing skills through curricular activities among preschool children with hearing impairment. *Journal of Disability Management and Rehabilitation*, 6(2), 23-32.
63. Venkatesan, S. (2020). Is it time for a parental diagnostic classification system? *Journal of Psychiatry and Psychology Research*, 3(3), 191-193.
64. Venkatesan, S. (2020). Uninvolved parenting in children with academic delays and specific learning disabilities. *The International Journal of Indian Psychology*, 8 (2): 961-966. DOI: 10.25215/0802.024.DIP: 18.01.024/20200802.
65. Venkatesan, S. & Lokesh, L. (2020). Inter-correlations between tests of intelligence in students with learning disabilities. *Indian Journal of Health and Wellbeing*, 11(1-3), 43-47. https://doi.org10.15614/IJHW.v11i01.11.
66. Venkatesan, S. (2020). Thematic analysis of narratives of conversation between professionals & parents of children with intellectual and developmental disabilities, *Disabilities and Impairments*, 34(1), 59-76.
67. Venkatesan, S. & Lokesh, L. (2020). Studying the effects of porteus maze test in children with specific learning disabilities. *International Journal of Asia Pacific School Psychology*, 1(2), 117-125. DOI: 10.1016/ j.jsp.2006.11.008.
68. Venkatesan, S. (2020). Socratic questioning enabled analysis of problem behaviors. *Journal of Psychology*, 11 (1-2), 12-22. DOI:10.31901/24566292.2020/ 11.1-2.198.
69. Vignesh, S.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*, <https://doi.org/10.1044/2020_AJA-20-00155>.
70. Vijetha, P., Narayana, U.L. & Upadhyay, A.K. (2019). Primary education of children with cochlear implants in mainstream schools: parents’ perspective. *Journal of Nehru Gram Bharati University,* 8(2), 83-87.
71. Vineetha, S.P., & Goswami, S.P. (2020). Comparing verbal and aided single sentence productions in Malayalam-speaking adults with aphasia: a preliminary investigation. *Clinical Linguistics & Phonetics*, DOI: 10.1080/02699206.2020.1855254.
72. Yashaswini, L. & Maruthy, S. (2020). Effect of music training on categorical perception of speech and music. *Journal of Audiology and Otology*, 24(3), 140–148.
73. **Books / Book Chapters**

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

1. Anjana, A.V. & Sreedevi, N. (2020). Articulatory and phonological disorders. In Shirly, G., Suja K Kunnath, Vinitha Mary George & Anne Varghese (Eds.), *Communication Disorders: Illustrated in ICF Framework*, NISH, Thiruvananthapuram.
2. Bhoomika, G., Nisha, K.V. (2020). Effects of musical training on auditory spatial processing abilities: a psychoacoustical and perceptual study, In Anupam Biswas (Eds.et al.) *Advancess in Intelligent System and Computing*: Vol. 1320. (pp. 978-981).
3. Goswami, S.P., Shivashankar, N. & Arya, S. (2020). Neurogenic language disorders in adults. In Shirley, G., S.K. Kunnath, V. M. George and A. Varghese (Eds.), *Communication Disorders, Illustrated in ICF Framework*. National Institute of Speech and Hearing.
4. Gupta, S.K. (2020). *Telerehabilitation in communication disorders and mental health*. Sage.
5. Manju, S, Deepthi, K. J. & Pushpavathi, M. (2020).  Cleft lip and palate and other craniofacial disorders.  In Shirley, G., S. K. Kunnath, V. M. George and A. Varghese (Eds.), *Motor Speech Disorders in Children*. (pp. 91-139) National Institute of Speech and Hearing, Thiruvananthapuram.
6. Nandeesha, B. (2020). Country-wise study of speech and hearing literature based on Scimago database. In Pramanathan, U., Kavitha, R., Stephen, G. & Selvam, M. (Eds.), *Handbook of metric studies for library and information science scholars* (pp. 47-53). SK Research Group of Companies Publication.
7. Nandeesha, B. (2020). Google scholar: an overview. In Ramasamy, K. & Mani, M. (Eds.), *Google era librarianship: tools, technologies and skills* (pp. 111-119). Muthra Publishers.
8. Nandeesha, B. (2021). Opportunities and implementation of big data management in academic libraries: strategic approach and discovering a solution. In Sangeeta Namdev Dhamdhere (Ed.), *Big data applications for improving library services* (pp. 34-47). IGI Global. 10.4018/978-1-7998-3049-8.
9. Nisha, K.V. & Shetty, H. (2020). Fitting hearing aids to single-sided deafness. In Shetty, H., & Namz Aqq aqabi, A. (Eds). Clinical aspects of Hearing Aid, *ISHA Monograph* (pp. 147-159).
10. Priyadarshi B., Goswami, S.P. & Jaghacharan, K. (2020). Lexical fast mapping competency in children with specific language impairment. In T.Khan, *Trends in Applied Linguistics and Language in use*. Mysuru: Central Institute of Indian Languages and Linguistic Society of India. 27-34.
11. Santosh, M., Veerabhadrappa, C. R. & Maruthy, S. (2020). *Communication attitude test in Kannada for school age children who stutter* (Test Manual), AIISH.
12. Swapna, N. (2020). Apraxia of speech, in communication disorders; illustrated in ICF perspective. In Shirley, G., S. K. Kunnath, V. M. George and A. Varghese (Eds.), *Motor Speech Disorders in Children*. National Insstitute of Speech and Hearing.
13. Veerabhadrappa, R. C., & Maruthy, S. (2021). Telerehabilitation in stuttering. In, S. K. Gupta (Ed.). *Telerehabilitation in Communication Disorders and Mental Health* (1st ed., pp.75-103). SAGE Publications India Pvt Limited.
14. Venkatesan, S. (2020). Covid-19 the Pandemic and people with intellectual and developmental disabilities. In L. S. S. Manickam. (Ed.), *Covid-19 Pandemic: Challenges and responses of psychologists from India* (pp. 80-93). Center for Applied Psychological Studies.
15. Venkatesan, S. (2020). *Toys and play in children*. Akinik Publications.
16. Yashomathi, S. & Gayathri, K. (2020). Augmentative and alternative communication systems for children with cerebral palsy. In Tanu Wadhera & Deepti Kakkar (Eds.), *Interdisciplinary Approaches To Altering Neurodevelopmental Disorders* (pp. 63-86). IGI Global. DOI: 10.4018/978-1-7998-3069-6.ch005.
17. Yashomathi, S. (2020). Aided Augmentative and alternative communication (AAC) systems for individuals with autism spectrum disorders. In Tanu Wadhera & Deepti Kakkar (Eds.), *Interdisciplinary Approaches To Altering Neurodevelopmental Disorders* (pp. 87-106). IGI Global. DOI: 10.4018/978-1-7998-3069-6.
18. **In-house Publications**

The faculty and students of the Institute published the following papers in the *Student research at AIISH*, the inhouse journal of the Institute during the reporting year.

1. Abhijith, M. & Geetha, C. (2019). Evaluation of digital hearing aids with wireless synchronization in older adults. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 1-10, AIISH, Mysuru.
2. Akshay, M. & Neelamegarajan, D. (2019). Influence of musical proficiency on psychophysical tuning curves and contralateral suppression of DPOAEs. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 1-9, AIISH, Mysuru.
3. Amruthavarshini, B. & Yathiraj, A. (2019). Comparison of performance on SPIN-K between native Kannada speakers and non-native Kannada speakers having Malayalam as their native language. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 19-29, AIISH, Mysuru.
4. Angeline, K. & Rajalakshmi, K. (2019). Development of Video for counseling hearing aid users and check its efficacy using hearing aid handling skills. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 36-44, AIISH, Mysuru.
5. Anoopa, & Manjula, P. (2019). Reasons for use and non-use of hearing aids. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 11-24, AIISH, Mysuru.
6. Athreya, V. M. & Barman, A. (2019). Relationship between some aspects of temporal processing and speech in noise scores in individuals with normal hearing. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 229-239, AIISH, Mysuru.
7. Bansal, S. & Sinha, S. K. (2019). Objective assessment of otolith and SCCS functions in individuals with severe to profound hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 132-146, AIISH, Mysuru.
8. Basappa, A. & Prabhu, P. (2019). Evaluation of temporal processing abilities in individuals with hypertension. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 30-35, AIISH, Mysuru.
9. Basavaraj, V. & Shetty, H. N. (2019). Hearing aid for tinnitus management: a comparison study of amplification strategies on audibility of tinnitus. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 170-178, AIISH, Mysuru.
10. Bhuvana, S. & Barman, A. (2019). Effect of spectro-temporal enhancement on speech perception in individuals with AD. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 10-23, AIISH, Mysuru.
11. Chaithra, K.C. & Ganapathy, M.K. (2019). Binaural interaction component for speech evoked ABR in older adults. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 45-51, AIISH, Mysuru.
12. Chandan, R. & Rajalakshmi, K. (2019). Noise induced hearing loss: its effects and awareness on city bus drivers. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 57-64, AIISH, Mysuru.
13. Chintamani, N. S. & Yathiraj, A. (2019). Development and evaluation of high frequency word identification test for children in Indian-English (HF-WITCIE). (Article based on dissertation) Vol.XV:2016-17, 240-250, AIISH, Mysuru.
14. Chowhan, P. J. & Hemanth. N. (2019). Prevalence and Audiological characteristics of single sided deafness in individuals with sensorineural hearing loss reported to AIISH 2015-2018. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 258-267, AIISH, Mysuru.
15. Devamma, V. & Neelamegarajan, D. (2019). Comparison of directional microphone and digital noise reduction algorithms in hearing aid users. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 36-46, AIISH, Mysuru.
16. Dhruvakumar, S. & Hemanth, N. (2019). Effect of Bluetooth technology in hearing aids on recognition of naturally rate altered speech. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 216-226, AIISH, Mysuru.
17. Dorathy, A. R. J. & Geetha, C. (2019). Acceptable noise level: effect of number of talkers in native and non-native speech. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 158-163, AIISH, Mysuru.
18. Firdose, H. & Singh, N. (2019). Impact of advancing age on frequency tuning of ocular vestibular evoked myogenic potential. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 24-35, AIISH, Mysuru.
19. Gafoor S. A. Kumar, A. U. (2019). Relationship between contralateral inhibition of otoacoustic emissions and speech perception of noise: effect of age, signal to noise ratio and linguistic load. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 148-158, AIISH, Mysuru.
20. Gargeshwri, A. & Kumar, U. (2019). Test retest repeatability of contralateral inhibition of transient evoked otoacoustic emissions. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 1-8, AIISH, Mysuru.
21. Ishu, M. & Rajalakshmi, K. (2019). Hearing aid handling skills: comparison across the duration of hearing aid use. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.XIV:2015-16, 19-29.
22. Jain, S. N. & Yathiraj, A. (2019). Comparison of performance on SPIN-K between native Kannada speakers and nonnative Kannada speakers having Hindi as their native language. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 179-192, AIISH, Mysuru.
23. Jaisinghani, P., & Manjula, P. (2019). Efficacy of SNR loss as clinical tool for hearing aid evaluation. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 96-109, AIISH, Mysuru.
24. Jasiya, K. M. & Singh, N. K. (2019). Vestibular evoked myogenic potentials and video head impulse test in auditory neuropathy spectrum disorder. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 47-58. AIISH, Mysuru.
25. Jeena, T. K. & Kumar, P. (2019). Binaural interaction component, binaural fusion test and masking level difference in children at risk of central auditory processing disorder. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 59-68, AIISH, Mysuru.
26. Jha, R. & Sinha, S. K. (2019). The assessment of semicircular canal’s, saccule’s and urtricles’ function in older adults. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 103-109, AIISH, Mysuru.
27. Joshi, K. & Kumar, A. U. (2019). Relationship between speech perception in noise and working memory in individuals with normal hearing. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 89-100, AIISH, Mysuru.
28. Joshi, K. & Singh, N. K (2019). Impact of hearing aid use on Vestibule-Ocular Reflex and body balance. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 80-88, AIISH, Mysuru.
29. Kappadi, S. & Ganapathy, M.K. (2019). Effect of noise exposure on efferent auditory system. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 207-217, AIISH, Mysuru.
30. Keerthi, S. P. & Jijo. P. M. (2019). Working memory and low redundancy speech perception in the normal ear of individuals with unilateral hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 69-79, AIISH, Mysuru.
31. Khatri, E. & Maruthy, S. (2019). Effect of varying the interstimulus interval on multi frequency auditory brainstem response. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 65-72, AIISH, Mysuru.
32. Kumar, S. & Kumar, P. (2019). Speech perception and sub-cortical processing of speech in noise in children with dyslexia. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 156-162, AIISH, Mysuru.
33. Lakshmi, A. & Manjula, P. (2019). Comparison of objective and subjective approaches for verification of RIC hearing aid. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 11-18, AIISH, Mysuru.
34. Lepcha, M. & Sinha, S. (2019). Assessment of the otolithic and semicircular canal functions in individuals with sensorineural hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 73-84, AIISH, Mysuru.
35. Madalambika, M. B. & Sinha, S. K. (2019). Relationship between speech in noise test, audiotry efferent system and speech ABR: comparison between younger and middle aged aduts. (Article based on dissertation) Vol.XIV:2015-16, 37-52, AIISH, Mysuru.
36. Madhusagar, G. & Barman, A. (2019). Effect of noise spectrum on cortical evoked auditory potentials in younger and older adults with normal hearing sensitivity. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 53-62, AIISH, Mysuru.
37. Mamatha, H. & Maruthy, S. (2019). Auditory brainstem responses using chained stimuli of multiple frequency tone bursts. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 63-77, AIISH, Mysuru.
38. Meenu, A.V. & Maruthy, S. (2019). Effect of short-term exposure to below damage risk criteria noise on temporal processing and speech perception. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 101-112, AIISH, Mysuru.
39. Megha, K.N. & Konadath, S. (2019). Effects of ageing and noise exposure on ABR and DPOAEs. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 93-103, AIISH, Mysuru.
40. Nainitha, K. K. & Ganapathy, M. K. (2019). Acoustic change complex as an objective gap detection test in elderly indiduals. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 113-121, AIISH, Mysuru.
41. Navya, B. N. & Hemanth, N. (2019). Effect of gain and digital noise reduction on hearing aid in low annoyance and high annoyance group. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 50-60, AIISH, Mysuru.
42. Nayak, C.K. & Jain, C. (2019). Gap detection test using MLP toolbox- development of normative in children (9-11 years), (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 52-56, AIISH, Mysuru.
43. Nayana, M. & Jijo, P. (2019). Psychoacoustic abilities of normal ear of listeners with unilateral hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 122-130, AIISH, Mysuru.
44. Nayana, P.V. & Yathirah, A. (2019). Lexical neighbourhood test in Malayalam for Children (LNT-M). (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp.104-113, AIISH, Mysuru.
45. Nayank, S. & Kumar, P. (2019). Relationship between temporal processing attention and memory in children with learning disability. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 251-263, AIISH, Mysuru.
46. Nema, S. & Barman, A. (2019). Linguistic masking release in juveniles and adults-an Indian language perspective. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 204-215, AIISH, Mysuru.
47. Neupane, A.K. & Sinha, S.K. (2019). Correlation between vHIT and caloric test in individuals with auditory neuropathy spectrum disorder. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 25-35, AIISH, Mysuru.
48. Nirmala, J. & Sinha, S. (2019). Audio-Vestibular findings in Bus Drivers. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 61-72, AIISH, Mysuru.
49. Padmashree, B. & Manjula, P. (2019). An evaluation of the influence of temporal processing on hearing aid outcome. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 73-85, AIISH, Mysuru.
50. Parthasarathy, S. & Shetty, H. M. (2019). Manipulation of hearing aid gain and tinnitus relief: A paired comparison study. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 147-155, AIISH, Mysuru.
51. Pathak, M. & Kumar, P. (2019). Speech evoked aided cortical potentials in adults using hearing aids. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 85-92, AIISH, Mysuru.
52. Ponnanna, P. & Yathiraj, A. (2019). Equivalence of the matrix sentence test in Indian-English in the presence of noise. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 78-87, AIISH, Mysuru.
53. Prathibha, N. & Yathiraj, A. (2019). Comparison of co-articulation perception in individuals with normal hearing and hearing impairment. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 88-102, AIISH, Mysuru.
54. Preethi, M. & Barman, A. (2019). Effect of intensity repetition rate type on spectrum of auditory brainstem response. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp.131-140, AIISH, Mysuru.
55. Prithivi. T. & Jain, C. (2019). Gap detection test using mlp toolbox- Development of normative in children 7-9 years. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 114-119, AIISH, Mysuru.
56. Priya, K. P. & Yathiraj, A. (2019). Modified early speech perception test in Kannada. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 141-149, AIISH, Mysuru.
57. Publius, S. A. & Maruthy, S. (2019). Effect of familiarization to odd-ball paradigm task on P300. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 140-147, AIISH, Mysuru.
58. Rajesh Kumar, R. & Geetha, C. The effect of insertation gain and preferred gain on speech intelligibility. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 120-126, AIISH, Mysuru.
59. Rajith, B. N. & Rajalakshmi, K. (2019). Click rate induced facilitation of acoustic reflex in children with sensorineural hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 150-157, AIISH, Mysuru.
60. Rakshith, S. & Hemanth, N. (2019). Assessment of localization and traffic sign cognitive abilities in individuals with hearing impairment. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 127-139, AIISH, Mysuru.
61. Rashmi, E. & Singh, N. K. (2019). Effect of degree of acquired cochlear hearing loss on ocular vestibular evoked myogenic potential. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 110-122, AIISH, Mysuru.
62. Sahana, V. & Jijo P. M. (2019). Comparison of hearing aid acclimatization in individuals using receiver in the canal (RIC) and behind the ear (BTE) hearing aids. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 123-131, AIISH, Mysuru.
63. Sanjeev, M. R. & Geetha, C. (2019). Effect of noise on the sentence identification test in Kannada in individuals with hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.XV:2016-17, 167-171, AIISH, Mysuru.
64. Sankalpa, M. & Yathiraj, A. (2019). Comparison of children at risk for auditory processing disorder between urban and rural schools. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 172-180, AIISH, Mysuru.
65. Shamantha, M. & Puttabasappa, M. (2019). Comparison of channel freeTM and multi channelhearing aids on performance in individuals with sensorineural hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 181-195, AIISH, Mysuru.
66. Shanthala, S. P. & Singh, N. (2019). Test retest reliability of video head impulse test in healthy individuals. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 196-203, AIISH, Mysuru.
67. Sharma, M. & Barman, A. (2019). Effect of spectro-temporal enhancement on Speech Perception in individuals with cochlear hearing loss. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 36-49, AIISH, Mysuru.
68. Shiyaamsundar, V. B. & Geetha, C. (2019). Outcome of experienced users of wireless synchronization digital hearing aids using speech, spatial and qualities questionnaire. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 159-166, AIISH, Mysuru.
69. Shruthi, G. N. & Maruthy, S. (2019). Effect of noise on context dependent brainstem encoding of speech. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 167-178, AIISH, Mysuru.
70. Singh, Preetha & Geetha C. (2019). Speech-in-speech recognition: effect of language uncertainty. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 86-95, AIISH, Mysuru.
71. Sneha, P. & Ganapathy, M.K. (2019). Objective and subjective measures of localization and spatial perception in hearing impaired adults. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 227-239, AIISH, Mysuru.
72. Sreelakshmi, H.D. & Konadath, S. (2019). Cochlear functioning in individuals with sensorineural hearing loss with and without tinnitus. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 264-276, AIISH, Mysuru.
73. Sujan, M.J. & Hemanth, N. (2019). Frequency discrimination treatment and relapse on tinnitus: A single subject design. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 193-206, AIISH, Mysuru.
74. Suresh, V. & Kumar, A. U. (2019). Test retest reliability of speech evoked P300. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 179-185, AIISH, Mysuru.
75. Sugathan, A. & Konadath, S. (2019). Chained frequency specific tone burst stimuli for aided ABR threshold estimation in individuals with SNHL. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 1-10, AIISH, Mysuru.
76. Swathi, C. S. & Neelamegarajan, D. (2019). Release of masking (masking level difference), quick-sin and contralateral suppression of DPOAEs in musicians and non-musicians. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp.110-118, AIISH, Mysuru.
77. Tejaswini, S. & Hemanth, N. (2019). A study on simulated traffic environment: Assessing localization ability from individuals with hearing impairment. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 277-290, AIISH, Mysuru.
78. Tina, S. H. & Jain, C. (2019). Hearing and cochlear functioning in polycystic ovarian syndrome (PCOS). (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 163-169, AIISH, Mysuru.
79. Tulsi, S. & Jain, C. (2019). Effects of hormonal changes on temporal perception and speech perception in noise in females. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp.119-125, AIISH, Mysuru.
80. Udhayakumar. R. & Neelamegarajan, D. (2019). Comparison of syllabic and dual compression on non-linear hearing aid processed Malayam chimeric sentences. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 218-228, AIISH, Mysuru.
81. Usharani, N. S. & Neelamegarajan, D. (2019). Music evoked P300 in individuals with and without musical abilities. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.15:2016-17, pp. 291-298, AIISH, Mysuru.
82. Varsha, K. N. & Kumar, A. U. (2019). Temporal processing, working memory and speech perception skills in normal hearing individuals exposed industrial noise. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 240-248, AIISH, Mysuru.
83. Vinayagar, P. T. & Neelamegarajan, D. (2019). Comparison of syllabic and dual compression on non-linear hearing aid processed Kannada Chimeric sentences. (Student research at AIISH-Articles based on Dissertation done at AIISH) Vol.16:2017-18, pp. 249-257, AIISH, Mysuru.
84. Vinodhini, P. & Geetha, C. (2019). Relationship between envelope difference index, sentence recognition and speech quality in individuals with hearing impairment. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 13: 2014-15, pp. 126-139, AIISH, Mysuru.
85. Winston, J. & Maruthi, S. (2019). Effect of auditory and visual distracters on brainstem encoding of speech. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 30-36, AIISH, Mysuru.
86. Yogendra, A. M. & Kumar, U. (2019). Effect of hearing aid acclimatization on auditory and working memory skills in individuals with hearing impairment. (Student research at AIISH-Articles based on Dissertation done at AIISH). Vol. 14: 2015-16, pp. 9-18, AIISH, Mysuru.

**Books/Manuals/Seminar Proceedings edited:**

1. Veerabhadrappa, R. C., Vanryckeghem, M. & Maruthy, S. ( 2021). CAK:  Communication attitude test in Kannada for school-age children who stutter. All India Institute of Speech and Hearing (AIISH).
2. Veerabhadrappa, R. C., Vanryckeghem, M. & Maruthy, S. ( 2021). SSC-ER-K: Speech situation checklist-emotional reaction in Kannada for school-age children who stutter. All India Institute of Speech and Hearing (AIISH).