

RESEARCH AND PUBLICATIONS DURING 2021-22

Research projects have been designed to increase and improve the quality of rehabilitation services. The projects are aimed at evolving service modules and diagnostic tests that can be used or replicated by other organizations.

System: The Academic Committee is constituted as required under the bye-laws of the Institute. The members are approved by the Executive Council of the Institute. All the projects and academic activities of the Institute are placed before the Academic Committee. The report of the completed projects is also examined by the Committee.

6.1 ONGOING PROJECTS:

i) Development of module on early listening and communication skills for children with Cochlear implant under ADIP Scheme

Principal Investigator	- Mrs. Ravli Mathur
Co-investigators	- Dr. Gayatri Ahuja
Duration of the Project	- 12 Months
Date of Sanction	- 18 th October 2020
Budgetary Provision	- Rs. 5,55,500/-

Objectives of the Project – To develop an auditory verbal therapy module and conduct field testing of developed module to collect feedback on content validity and revise the module based on the feedback

Progress of the Project – The study outcome is a module for the therapists who are empanelled under the ADIP scheme. The project came up with an early listening and communication skills module which will be uniformly applied to all the cochlear implant children under ADIP scheme for therapy across the country. This module contains details about the therapy and age-specific goal with relevant activities of four different domains i.e., Audition, Speech, Language and Cognition. Completed softcopy of the module and project report submitted. Designing the cover page and printing of the module copies is pending.

ii) Development of a module for parent empowerment for rehabilitation of children with hearing impairment

Principal Investigator	- Dr. Sadhana Relekar
Co-investigators	- Dr. Aparna Nandurkar - Mrs. Gouri Telang
Duration of the Project	- 12 Months
Date of Sanction	- 6 th March 2020
Budgetary Provision	- Rs. 1,30,000/-

Objectives of the Project – To develop a module for the parents to gain knowledge about - (a) basic concepts to understand type and degree of hearing loss and its effect on their child's speech and language development, education, psychosocial development. Understand the parent's role in overall development of their child with hearing impairment (b) Hearing aids and advances in amplification (c) Government schemes and facilities available for PwHI (d) What is auditory –verbal therapy, how to plan activities for auditory training and speech and language development .

Progress of the Project – The draft/module is ready.

iii) Adaptation of Apraxia Battery for Adults in Hindi and Telugu

Principal Investigator	- Dr. Gauri Shanker Patil
Duration of the Project	- 12 Months
Date of Sanction	- 1 st Feb., 2021
Budgetary Provision	- Rs. 4,55,000/-

Objectives of the Project – To develop tool to diagnose apraxia of speech in Hindi and Telugu speakers with brain damage and to determine severity of apraxia of speech using the developed tool.

Progress of the Project – : The review of literature is completed. Data Collection is in process in Hindi. The Telugu tool is being validated.

iv) Profiling of Students of AYJNISHD(D)

Principal Investigator	- Dr. Dr. Rajeev Jalvi
Co-investigators	- Dr. Raju Arakh Dr. Gayatri Ahuja
Duration of the Project	- 6 Months
Date of Sanction	- 15 th September, 2021
Budgetary Provision	- Rs. 25,000/-

Objectives of the Project – (1) To profile the biographic details of rehabilitation professionals passed out in the last five academic years (2015-2020) from AYJNISHD (2) To profile the employment status of rehabilitation professionals passed out in the last five academic years (2015-2020) from AYJNISHD (3) To profile the professionals activities the rehabilitation professionals are underking.

Progress of the Project – : Review of the literature completed, tool validation is in progress. Students (B.Ed and D.Ed) data related to phone number and email id is Completed. Students (Diploma courses, B.ASLP, M.ASLP) data related to phone number and e-mail id is in process.

6.2 COMPLETED PROJECTS:

Compilation of Case Studies of Children using Cochlear Implants under ADIP Scheme

Principal Investigator	- Dr. Aparna Nandurkar
Co-investigators	- Mrs. Ravli P. Mathur
Duration of the Project	- 8 Months
Date of Sanction	- 15 th November, 2020
Budgetary Provision	- Rs. 3,21,600/-

Objectives of the Project –

- To develop a questionnaire for empaneled professionals in order to identify children with favourable outcomes in various areas.
 - To develop a questionnaire in Hindi and English to obtain information from parents about their complete journey of identification and management of hearing loss of their child
 - To collect data by obtaining information from parents using the developed questionnaire in the following areas :

a) First identification of hearing loss, assessments undergone, management of hearing problem pre-surgery, referral to ADIP CI scheme, experienced while pre-surgery, surgery and post-surgery i.e. Therapy, Mapping and care and maintenance.

b) The present status of child after implantation and rehabilitation.

➤ To develop a hand book of case studies of CWCI under ADIP scheme by compiling the information

Progress of the Project – The project culminated in a book with the title: Journey into The Hearing World: Stories of Children with Cochlear Implant under ADIP Scheme. This book will benefit various stakeholders involved in cochlear implantation. It will help to increase awareness about CI and its benefits under ADIP scheme to parents and families who are planning to get their child implanted. The book will help various NGOs or private companies who are looking for providing support of CI for children with hearing impairment in making decision. Overall, the book will achieve public awareness about the journey involved in cochlear implantation in children with hearing impairment.

6.3 DISSERTATIONS

Research is undertaken every year by the Msc. (Audiology), MASLP and M.Ed - Spl. Education (HI) students for their dissertation as part fulfilment of the course. The dissertation work in the area of Audiology, Speech-Language Pathology and Special Education is being taken up by the students. During the year under report, 42 dissertations were submitted by the students. The titles of the dissertations along with students and guides names are given below.

M.Sc. (Audiology) at AYJNISHD(D), Mumbai

1. Development and Evaluation of Word Lists in Marathi to assess Individuals with Sloping High Frequency Hearing Loss.

Name of the Student : Mr. Sumedh Chavan
Name of the Guide : Dr. S.B. Rathna Kumar

2. Client Satisfaction Index of Paediatric, Adult and Geriatric Clients for Diagnostic and Rehabilitative Audiological Services.

Name of the Student : Mr. Ayush Dubey
Name of the Guide : Dr. Aparna Nandurkar

3. Spoken Word Identification in Quiet and Noise Among Marathi Speaking Teenagers using Unilateral Cochlear Implant.

Name of the Student : Ms. Kalyani Kale
Name of the Guide : Dr. Aparna Nandurkar

4. Development and Evaluation of Spondee Word lists in Marathi for Estimating Speech Recognition Threshold.

Name of the Student : Mr. Aniruddha Katkar
Name of the Guide : Dr. S.B. Rathna Kumar

5. Awareness about the Non Auditory effects of traffic noise and Use of EPDs amongst Traffic Police Personnel – A Survey.

Name of the Student : Ms. Anuja Kulkarni
Name of the Guide : Dr. Rajeev Jalvi

6. Auditory Discrimination Abilities in Children with Early and Late Cochlear Implantation : A P300 Evaluation.

Name of the Student : Ms. Nishtha Mathur
Name of the Guide : Mr. Mohd. Shamim Ansari

7. Development of Mismatch Negativity Norms for Children 7-12 years of age.

Name of the Student : Ms. Dhruvi Narsana
Name of the Guide : Mr. Mohd. Shamim Ansari

8. Factors Influencing Non-use of Hearing Aids in Adults with Hearing loss.

Name of the Student : Mr. Suraj Santra
Name of the Guide : Dr. Aparna Nandurkar

9. Attitudes of Typical School Going Children towards hearing disability.

Name of the Student : Ms. Parminderdeep Kaur
Name of the Guide : Dr. Aparna Nandurkar

10. Development and Evaluation of Equivalent Word lists in Gujarati for Assessing Speech Perception Performance of Natives.

Name of the Student : Ms. Feni Rami
Name of the Guide : Dr. S.B. Rathna Kumar

11. Monotic and Dichotic Auditory Steady State Response Measurement: Implication to Behavioral Hearing Threshold Estimation.

Name of the Student : Mr. Rishabh Sen
Name of the Guide : Mr. Mohd. Shamim Ansari

12. Quality of life of Parents of Children with hearing impairment using Hearing aids and Cochlear Implants – A Comparative Study.

Name of the Student : Ms. Nidhi Somani
Name of the Guide : Dr. Rajeev Jalvi

M.Ed. Spl. Ed. HI at AYJNISHD(D), Mumbai

1. Perspective of Parents towards Early Intervention Services offered to children with Disabilities at Cross Disabilities Early Intervention Centres.

Name of the Student : Ms. Niharika Singh
Name of the Guide : Dr. Suni Mathew

2. Satisfaction of Beneficiaries towards Skill Development Programs Offered by the Empanelled Training Institutions.

Name of the Student : Mr. Deepak Kumar
Name of the Guide : Dr. Gayatri Ahuja

3. Awareness of Deaflympics among Deaf and Hard of Hearing Adults.

Name of the Student : Mr. Pankaj Kumar Shukla
Name of the Guide : Dr. Gayatri Ahuja

4. Basic Communication Skills of Special Education in Indian Sign Language.

Name of the Student : Ms. Neha Verma
Name of the Guide : Dr. Raju Arakh

5. Perspectives of Trainees toward developing Divyang-Mitra.

Name of the Student : Mr. Jitender Srivastava
Name of the Guide : Dr. Raju Arakh

MASLP, RC, Kolkata

1. Trans adaptation and validation of dementia assessment battery in Hindi

Name of the Student : Ms. Surbhi Choudhary
Name of the Guide : Mr. Suman Kumar

2. Developing a bangla version of the consensus auditory-perceptual evaluation of voice (cape-V-Bangla)

Name of the Student : Mr. SK Asraf Hossain
Name of the Guide : Mr. Indranil Chatterjee

3. Development of the test of auditory comprehension in Odia (TAC-O)

Name of the Student : Ms. Sasmita Mahakud
Name of the Guide : Mr. Suman Kumar

4. Transadaptation and validation of dysphagia handicap index in Bangla (DHI-B)

Name of the Student : Ms. Paramita Pal
Name of the Guide : Mr. Indranil Chatterjee

5. Comparison of cervical and ocular vestibular evoked myogenic potentials between congenital and acquired hearing loss

Name of the Student : Mr. Piyush Semwal
Name of the Guide : Mr. Indranil Chatterjee

6. Development of "Adult Aural rehabilitation guide" in Hindi

Name of the Student : Ms. Pooja
Name of the Guide : Mr. Suman Kumar

7. Development of Hindi version of western aphasia battery – revised H-WAB-R

Name of the Student : Ms. Kajal
Name of the Guide : Mr. Suman Kumar

8. Development of quick speech-in-noise (quicksin) test in Bangla

Name of the Student : Ms. Neetu Singh
Name of the Guide : Mr. Indranil Chatterjee

9. Transadaptation of reflux symptom index in Hindi

Name of the Student : Ms. Deepanshi Vaish
Name of the Guide : Mr. Suman Kumar

10. Development and standardization of Assamese photo articulation test

Name of the Student : Ms. Koyel Das
Name of the Guide : Mr. Suman Kumar

11. Transadaptation and validation of voice related quality of life in Bangla (VRQOL-B)

Name of the Student : Ms. Mohini Yadav
Name of the guide : Mr. Indranil Chatterjee

12. Development of oral expression scale in Bangla

Name of the student : Ms. Kakali Choudhury
Name of the guide : Mr. Suman Kumar

13. Effect of obesity on electroglotto graphic & cepstral parameters

Name of the Student : Ms. Farhana Haque
Name of the Guide : Mr. Indranil Chatterjee

MASLP, RC, Secunderabad

1. Survey on Regular Teachers' and Social Educators' Awareness and Exposure Regarding Hearing Impairment in School Going Children

Name of the Student : Ms. Supraja Prabhu
Name of the Guide : Mrs. Aparna Ravichandran
Name of the Co-Guide : Mrs. K Srividhya

2. Awareness of Childhood Hearing Impairment Among Angadwadi Workers in Hyderabad

Name of the Student : Ms. Jasra Shahid
Name of the Guide : Mr. B. Srinivasa Rao
Name of the Co-Guide : Mrs. K Srividhya

3. Evaluation of Hearing Aid Benefits in Older Adults Using the Speech, Spatial and Qualities of Hearing (SSQ) Questionnaire

Name of the Student : Mr. P. Bhargava Rao
Name of the Guide : Mrs. Aparna Ravichandran
Name of the Co-Guide : Mr. Mohd Abdul Razaq

4. Infection Control and Hygienic Measures Practiced Among Audiologists in Telangana.
 Name of the Student : Ms.K. Madhuri
 Name of the Guide : Mrs. Aparna Ravichandran
 Name of the Co-Guide : Mrs. Suparna

5. Trans adaptation Of Vertigo Handicap Questionnaire in Hindi Language
 Name of the Student : Ms.Jyoti Tiwari
 Name of the Guide : Mr. B. Srinivasa Rao
 Name of the Co-Guide : Mr. Mohd Abdul Razaq

6. Effect of Different Blood Groups on Ipsilateral Acoustic Reflex Thresholds
 Name of the Student : Ms. M. Mariya
 Name of the Guide : Mr. Gouri Shanker Patil
 Name of the Co-Guide : Mrs. K Sridhya

7. The Effect of Covid-19 Pandemic on Hearing Aid Users.
 Name of the Student : Mr. Naresh Chavathi
 Name of the Guide : Mr. Gouri Shanker Patil
 Name of the Co-Guide : Mr. Mohd Abdul Razaq

8. Survey on Problems Faced by Children with Cochlear Implant Due to Covid-19 Pandemic.
 Name of the Student : Ms. A. Sudha Rani
 Name of the Guide : Mr. Gouri Shanker Patil
 Name of the Co-Guide : Mrs. Suparna

9. Adaptation And Validation of Paediatric Hearing-Impaired Caregiver's Experience (PHICE) Questionnaire in Telugu.
 Name of the Student : Mr. Shoban Banoth
 Name of the Guide : Mrs. Aparna Ravichandran
 Name of the Co-Guide : Mr. Dananjai

10. Quality Of Life of Hearing Aid Users Vs Non-Hearing Aid Users in Middle- Age Hearing Impaired Population: A Comparative Study.
 Name of the Student : Ms.Mansha Panchal
 Name of the Guide : Mr. B. Srinivasa Rao
 Name of the Co-Guide : Mrs. Suparna

11. Knowledge of Mothers on Childhood Hearing Loss in Urban and Rural Areas of Hyderabad.
 Name of the Student : Ms. D.Srujana
 Name of the Guide : Mr. B. Srinivasa Rao
 Name of the Co-Guide : Mr. Dananjai

12. Impact of Covid-19 Pandemic on Audiology Clinical Practice of Students in India: A Knowledge, Attitude and Practices Survey.
 Name of the Student : Mr. Shiva Deekshith Raveeti
 Name of the Guide : Mr. Gouri Shanker Patil
 Name of the Co-Guide : Mr. Dananjai

6.4 PUBLICAATIONS

1. Poothullil M.M. and Vedika K. (2021). Gender Rights and Social Media Usage for E-Commerce in terms of Social Justice, B. Aadhar-International Peer-Reviewed Indexed Research Journal, ISSN: 2278-9308 Impact Factor -(SJIF) –7.675, Issue NO, 314 (CCCXIV)
2. Poothullil M.M., Saquib Mulla, Shubin Shaju, Nidhi Poothulil and Jisha Mary Jose(2021).Content Analysis Study of Oral and Dental Health Care Mobile Applications in Terms of Alternative and Interactive Digital Platform for Communication, B.Aadhar-International Peer-Reviewed Indexed Research Journal, ISSN : 2278-9308 Impact Factor -(SJIF) –7.675, Issue NO, 314 (CCCXIV)
3. Poothullil M.M. and Vedika K. (2021). Effect of Covid -19 on the Usage of Social Media for E-Commercial Activities from the Perspective of Buyers and Sellers, Vidyabharati International Interdisciplinary Research Journal (Special Issue) on Research and Innovations on Industry 4.0 (Oct. 2021) ISSN 23194979.
4. Poothullil M.M. and Akshara Bose (2021). Perceptual Dynamics in the Language of Matrimonial Advertisements in a National Newspaper Daily, B.Aadhar- International Peer-Reviewed Indexed Research Journal, ISSN : 2278-9308. Impact Factor -(SJIF) –7.675, Issue NO, 314 (CCCXIV)
5. Dr. Mathew Martin Poothullil Received Best research paper award for the paper titled 'Gender Rights and Social Media Usage for E-Commerce in Terms of Social Justice' at the One Day National Conference on Reformatations in Media through the lens of Social Justice on 7th August 2021 organized by the Department of Communication and Journalism, University of Mumbai.
6. Banik, A. A. and Banik A.D. (2021) Study the status of access facilities available for children with disabilities studying in BMC school at Mumbai, IP Journal of Otorhinolaryngology and Allied Health Sciences, June 2021 4(2), ISSN No:-2582-4147 Online ISSN No:-2582-421X, page 53-64
7. Banik, A. A. and Banik A.D. (2021) Need of access facilities for hearing disabilities , IP Journal of Otorhinolaryngology and Allied Health Sciences, June 2021 4(2), ISSN No:-2582-4147 Online ISSN No:-2582-421X, page 64-69.
8. Venkat Prusty and Arun Banik (2022). "Validation of activity manual in Hindi for parents of children with hearing mpairment". International Journal of Speech and Audiology, Peer Reviewed Journal, Refereed Journal, Indexed Journal, P-ISSN: 2710-3846, E-ISSN: 2710-3854.
9. Rajeev Ranjan and Arun Banik (2022). Validation of activity manual in Hindi for parents of children with hearing impairment. International Journal of Speech and Audiology 2022; 3(2): 15-21, E-ISSN: 2710-3854 , P-ISSN: 2710-3846
10. Saxena, U., Chaccko, G., Kumar, S.B.R., Nagabattula, V., Damarla, V. (2021): Effect of COVID-19 on Cochlear Implant Users : Parental Perspectives. Clinical Archives of Communication Disorders, 6(1):12-17.
11. Saxena, U., Kumar, S.B.R., Singh, B.P. (2021). Measurements of middle ear functioning traditional (acoustic impedance and acoustic admittance) and modern (middle ear reflectance and middle ear absorbance): A Review. International Journal of Otorhinolaryngology & Head and Neck Surgery, 7:1068-1075.
12. Chacko, G., Saxena, U., Kumar, S.B.R., Medisala, s. (2021). Impact of COVID-19 on hearing aid users. Clinical Archives of Communication Disorders, 6(2):135:140.

13. Ansari, M.S., Sood, A.s., & Gill, J.S. National Infant Screening for Hearing Programme in India: Necessity, Significance and Justification. *Indian J Otolaryngol Head Neck Surg* (2021). <https://doi.org/10.1007/s12070-021-02788-2>
14. Ansari, M.S. Implementation of National Infant Screening for Hearing Programme in India:Challenges, Opportunities and Suggested Framework. *Indian J Otolaryngol Head Neck Surg* (2021). <https://doi.org/10.1007/s12070-021-02788-2>
15. Ghosh, S., Chatterjee, I., Kundu, P.,Pani, S., Kumar, S., & Mandal, J.K. (2021). Impact of Hydration on vocal loading using phonetogram measures. *International Journal of Otorhinolaryngology and Head and Neck Surgery*.7(8),1317-1324.
16. Ravichandran, A., Hyandavi, V., Thiruvalluvan, V. (2022) Auditory Comprehension Abilities In Children Using Unilateral Cochlear Implant Vs Bimodal Device – A Comparative Study. *International Journal of All Research Education and Scientific Methods*, 10(1), 164-170.
17. Ravichandran, A., Thiruvalluvan, V. (2022) A Comparative Study Of Comprehension Of Spoken Language Grammar In Prelingually Deaf Children Cochlear Implantation. *International Journal of Research and Analytical Reviews*, 9(1), 212-218.
18. Porika, R. K., Doraisami, B., & Ravichandran, A. (2021). The Efficacy of Digital Hearing Aids in the Management of Tinnitus in Individuals with Sensorineural Hearing Loss. *The international Tinnitus Journal*, 25(1), 100–106. <https://doi.org/10.5935/0946-5448.20210018>
19. Jyothi, V. A. (2021). Identification of Children with Disabilities in Government Primary Schools of Hyderabad District - Survey. *Asian Journal of Education and Social Studies*, 21(1), 38-45. <https://doi.org/10.9734/ajess/2021/v21i130500>
20. Jyothi, V. A. (2020). Receptive vocabulary of hearing impaired children in integrated schools - a study. *International journal of research and analytical reviews*, 7(4),192-201.
21. Yousuffudin, M., Porika, R.K., Rao,S. B.(2022) Hearing Impairment and Daily-life Fatigue: A qualitative study. *Indian Journal of Audiology*, 118-124.
22. Sridevi, K.(2021) Effect of Activity based instructions in improving writing skill among children with profound hearing loss at primary level. *International Journal of current research*, 13(7), 18165-8170. <https://doi.org/10.24941/ijcr.41805.07.2021>,
23. Sridevi, K. (2021) A study on implementation of inclusive education with reference to RTE (amendment) Act 2012 for children with special needs, *Edu-tracks*, 20 (12), 41-44.
24. Ravichandran, A., Prakash,S.S., Prabhu,S. (2021) Perspectives of Inclusive Education Resource Teachers (IERP's) and Special teachers on Inclusive Education for Children with Hearing Impairment - A Comparative Study, *International Journal of Research and Analytical Reviews*, 8(4), 857-861.
25. Bhatt, SS., Kabra, S. &Chatterjee, I. (28th Feb, 2021). A comparative study on Acoustic Voice Quality Index between the subjects with Spasmodic dysphonia and Normophonia. *Indian Journal of Otolaryngology and Head and Neck Surgery*. Download from- (<https://rdcu.be/cfYIH>)
26. Sharma, K., Chatterjee, I., Kundu, P., Chatterjee, A.S., Pani, S. (JULY, 2020). A comparative study on voice range profile (VRP) and speech range profile (SRP) in adults with and without vocal nodules, *World Journal of ENT & Head and Neck Surgery* (Vol 1, Issue 3). Page 46-53.

27. Chatterjee, I., & Gore, G. (2021). Impact of Duration of Residual Inhibition on Tinnitus Masking in Patients with and without Hearing Impairment. *Indian Journal of Otology*: 27, 131-139.
28. Ghosh, P., Chatterjee, I., Pani, S., Saha, A., Basu, T. (JULY, 2021). A comparative study on Acoustic Voice Quality Index between Muscle Tension Dysphonia and Normophonia, *World Journal of ENT & Head and Neck Surgery* (Vol 2, Issue 3). Page 89-93.
29. Sharma, K., Chatterjee, I., Kundu, P., Chatterjee, A.S., Pani, S. (JULY, 2021). Comparison of Normophonia, Dysphonia and Dysarthrophonia among Male Subjects, *World Journal of ENT & Head and Neck Surgery* (Vol 2, Issue 3). Page 79-83.
30. Yadav, S., Chatterjee, I., & Banerjee, K. (APRIL, 2022). A Comparative Study of Laryngeal Aerodynamic Parameters in Age and Height Matched Trained and Untrained Singers and Non-Singers Using Aerophone-II. *Journal of the West Bengal University of Health Sciences*, Vol-2, Issue-4, page-10-20.
31. Akil, A., Chatterjee, I., Dutta, & Tyagi, Y. (APRIL, 2022). A comparative study on Electrically Evoked Stapedial Reflex Threshold levels, behaviorally set psychophysical levels in Digisonic SP and Nucleus cochlear implant users. *Journal of the West Bengal University of Health Sciences*, Vol-2, Issue-4, page-48-58.
32. Semwal, P., Dubey, Chatterjee, I. (JANUARY, 2022). Comparison of Cervical and Ocular Vestibular Evoked Myogenic Potentials in Congenital Versus Acquired Hearing Loss. *Journal of the West Bengal University of Health Sciences*, Vol-2, Issue-3, page-45-61.
33. Kar, P., Chatterjee, I., & Bose, A. (OCTOBER, 2021). A Comparative Study on Emphatic Stress between Persons with Parkinson's disease and Age Matched Peers. *Journal of the West Bengal University of Health Sciences*, Vol-2, Issue-2, page-32-39.
34. Gupta, K., Saha, A., Chatterjee, I., Kundu, P., & Chatterjee, N. (OCTOBER, 2021). Effectiveness of Voice Low Tone High Tone Ratio (VLHR) as a Nasality Measure in Adult Native Bengali Speakers: A Correlation Study, *Journal of the West Bengal University of Health Sciences*, Vol-2, Issue-2, page-40-49.
35. Kumar, A., Chatterjee, I., Makar, S.K., Jain, S., Saha, A., & Basu, T. (JULY, 2021). Development and Validation of Sentence Level Phase Perception Test in Bangla. *Journal of the West Bengal University of Health Sciences*, Vol-2, Issue-1, page-34-46.
36. Paul N., Chatterjee I., Das I., Das R., Banerjee S., and Debnath S. (2021). Auditory Evoked Potentials as Yardstick for Tinnitus. *Journal of Public Health, Hygiene and Safety*, Vol.-3, Issue-1:101, p-1-8 (Annex Publishers | www.annexpublishers.com)
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39. Paul, N., Chatterjee, I., Banerjee, S., Singh, U.D., (April, 2021), App based and Online TRT : An Efficacy Study , *International Research Journal of Modernization in Engineering Technology and Science* , 3(4), ISSN: 2582-5208

40. Chatterjee,N., Chattopadhyay, D., & Chatterjee,I. (2021).Management of Tinnitus in Covid-19 Outbreak- A Comparative Study between Mindfulness Based Tinnitus Stress Reduction and Tinnitus Retraining Therapy-International Tinnitus Journal. 25(2):29-33.
41. Ghosh, S., Chatterjee,I., Kundu. P., Pani, S., Kumar, S., & Mandal, J.C. (2021). Impact of hydration on vocal loading using phonetogram measures. International Journal of Otorhinolaryngology and Head and Neck Surgery Aug; 7(8):1317-1324 <http://www.ijorl.com> pISSN2454-5929 | eISSN2454-5937.
42. Niyogi,S.,Bhattacharya,J.,Das,S.,Ghosh,S.,Goel,P.,&Chatterjee,I.(2021).A study on changes in phonetics in completely edentulous patients before and after rehabilitation with conventional and customized complete dentures . International Journal of Otorhinolaryngology and Head and Neck Surgery Aug; 7(8):1330-1336 <http://www.ijorl.com> pISSN2454-5929 | eISSN2454-5937.
43. Singh, B., Chatterjee, I., Pani, S. (APR, 2021).Transadaptation and Validation of Vocal Fatigue Handicap Questionnaire in Bengali (VFHQ-B), World Journal of ENT & Head and Neck Surgery (Vol 2, Issue 2). Page 27-32.
44. Soni, K., Saxena, V., Bhagat, H., Chatterjee, I. (APR, 2021).Outcome of Manual Circumlaryngeal Therapy in Females with Muscle Tension Dysphonia: A Comparative Study, World Journal of ENT & Head and Neck Surgery (Vol 2, Issue 2). Page 34-50.
45. Tarai, S.K., Chatterjee, I., & Pani, S. (OCT., 2021).A Comparative Acoustic Analysis Of Bangla Folk Song and Rabindrasangeet on Long-Term Average Spectrum, Journal Of Voice-PubMed/Elsevier (Vol 2, Issue 2). Page.
46. Biswas, S., Chatterjee, I., Dutta, P., & Narayanan, S.S. (2022). Development of Time Compressed Sentence Test in Bengali (TCST-B). International Journal of Otorhinolaryngology and Head and Neck Surgery March; 8(3):210-215 <http://www.ijorl.com> pISSN2454-5929 | eISSN2454-5937
47. Biswas, C., Chatterjee, I. , & Mandal,J.C. (2021).A Comparative Study on Trained and Untrained Female Singers using Electroglottography Parameters, International Journal of Phonosurgery and Laryngology,Vol-2,1-6
48. Makar S. K., Rao N., Lenka, Basu J (2021). Effectiveness of Cochlear Implant in Children with Profound Sensorineural Hearing Loss Below Poverty Line in Rural India: A Longitudinal Study. International Journal of Otorhinolaryngology 7(2), 6-10.
49. Makar, S. K., Rao B. N., (2021). Etiology and Pathophysiology of Tinnitus – A Systematic Review. World Journal of Pharmaceutical and Medical Research, 7(4), 66-79.

6.5 Books

1. Sridevi, K., Reddy, S. K. (2021) *Creating an Inclusive School*, Hyderabad: Neel Kamal Publications.
2. Sridevi, K. (2021), *Reading Reflecting on Text in Telugu: Study Material of B. EdSpl. Edn(H. I)*, Hyderabad: BRAOU Press.