

RESEARCH AND PUBLICATIONS DURING 2020-21

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 – Review of literature is completed. The draft of the module was prepared and validation was under progress. Scheduling for workshop with experts was in progress

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/-

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 under progress. The tool preparation is done in Hindi and under process in Telugu. Planning for data collection.

iv) 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 –

- Review of literature completed
- Telephonic interviews of 80 parents completed for data collection
- Initial drafts of stories of all children are prepared
- Editing of the stores is under progress
- Details about printing of the hand book are being finalized.

6.2 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, 45 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 & RC, Secunderabad

1. Assessing post-operative stress level among parents of children with cochlear implant as a function of implant age

Name of the Student : Ms. Ankita Eknath Deshmukh
Name of the Guide : Dr. S.B. Rathna Kumar

2. Post-operative parental satisfaction on communication abilities, social skills and academic achievements of children with cochlear implant under ADIP Scheme (Revised 2014)

Name of the Student : Mr. Mrugesh Ravindra Sonawane
Name of the Guide : Dr. S.B. Rathna Kumar

3. A Comparison of cepstral peak measures of voice between persons with vocal fold paralysis and vocal nodules

Name of the Student : Ms. Neeru Rajput
Name of the Guide : Dr. Arun Banik

4. Study of cepstral peak parameters of voice in typical adults

Name of the Student : Ms. Upasna Badwal
Name of the Guide : Dr. Arun Banik

5. Identification of familiar nursery rhymes by children using cochlear implants compared to those using hearing aids

Name of the Student : Ms. Salome Thomas
Name of the Guide : Dr. Sadhana Relekar

6. Development of phonemically balance word list in the Dogri language

Name of the Student : Mr. Rahul Bhagat
Name of the Guide : Dr. Rajeev Jalvi

7. Comparison of the peripheral auditory functioning in persons with and without parkinson's disease

Name of the Student : Mr. Abhishek P. Suvarna
Name of the Guide : Mr. Mohammad Shamim Ansari

8. Comparison of Thirty party disability between normal hearing siblings of children using hearing aids and those using cochlear implants

Name of the Student : Ms. Manisha Rani
Name of the Guide : Dr. Aparna Nandurkar

9. Auditory late latency responses in older adults with and without hearing loss: A comparative study

Name of the Student : Ms. Anitha S.
Name of the Guide : Mr. Mohammad Shamim Ansari

10. A study on Clinical Vocal Loading test in Normophonic females

Name of the Student : Ms. Amritha S.
Name of the Guide : Mrs P. Ravali Mathur

11. A Comparative study of Auditory Middle Latency Response measurements in elderly individuals with and without hearing loss

Name of the Student : Ms. Elshi Jenifur
Name of the Guide : Mr. Mohammad Shamim Ansari

12. Awareness of Leisure Noise induced hearing loss and use of ear protection devices among young adults

Name of the Student : Ms. Saima P.A. Shaikh
Name of the Guide : Dr. Rajeev Jalvi

13. Development of tool for screening emergent literacy in Tamil

Name of the Student : Ms. Yogeshwari N.
Name of the Guide : Mrs P. Ravali Mathur

14. P300 in Stutterers and Non-Stutterers a Comparative study

Name of the Student : Mr. Suvankar Mund
Name of the Guide : Dr. Rajeev Jalvi

15. Comparing central auditory processing skills in good and poor academic performance

Name of the Student : Mr. B.Vishnu Ram
Name of the Guide : Mrs. Aparna Ravichandran

16. Negative side effects associated with hearing aid use in elderly hearing impaired

Name of the Student : Mr. Sipun Sahu
Name of the Guide : Mr B. Srinivasa Rao

17. Effect of compression ratio on perception of time compressed phonetically balanced monosyllabic Hindi words

Name of the Student : Mr. Ankesh Kumar
Name of the Guide : Mr. B. Srinivasa Rao

18. The effect of tinnitus retraining therapy with and without medical treatment in the management of idiopathic tinnitus

Name of the Student : Ms. M.Kavya
Name of the Guide : Mrs. Aparna Ravichandran

19. Hearing impairment and daily life fatigue - a qualitative study

Name of the Student : Mr. Mohmmad Yousufuddhin
Name of the Guide : Mr. B. Srinivasa rao

20. Trans adaptation of hearing handicap inventory (elderly) in Telugu

Name of the Student : Mr. Praveen Kumar
Name of the Guide : Mr. B. Srinivasa rao

21. Usage of noise cancellation headphones in school screening

Name of the Student : Mr. Ravi Kumar
Name of the Guide : Mr. B. Srinivasa Rao

22. Auditory comprehension abilities in Telugu speaking children using unilateral cochlear implant and bilateral hearing aids - a comparative study

Name of the Student : Ms. Meenu Raj Chitkuri
Name of the Guide : Mrs. Aparna Ravichandran

23. Speech perception in children with hearing impairment using binaural cochlear implant, bimodal devices and binuaral hearing aids - a comparative study

Name of the Student : Ms. Niveditha . N
Name of the Guide : Mrs. Aparna Ravichandran

24. Effects of age and stimulus frequency on gap discrimination

Name of the Student : Ms. R. Heamavathi
Name of the Guide : Mrs. Aparna ravichandran

25. Auditory behaviour in every day life of children using hearing aid

Name of the Student : Mr. Samuel Santhosh
Name of the Guide : Mrs. Aparna ravichandran

MASLP, RC, Kolkata

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

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

27. 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

28. Trans adaptation and validation of dysphagia handicap index in Bangla (dhi-b)

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

29. 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

30. Development of "adult aural rehabilitation guide" in Hindi

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

31. 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

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

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

33. Trans adaptation of reflux symptom index in Hindi

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

34. Development and standardization of Assamese photo articulation test

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

35. Trans adaptation 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

36. Effect of obesity on electro glottographic & cepstral parameters

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

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

37. Teachers' Perception about Inclusion in Mizoram

Name of the Student : Mr. Samuel R.Lalhmangaiha
Name of the Guide : Dr. Varsha Gathoo

38. Challenges of stakeholders in cochlear implantation of children with hearing impairment in north east region

Name of the Student : Mr. Reiphomshel Saka
Name of the Guide : Dr. Suni Mathew

39. Online teaching learning challenges during COVID 19 pandemic: perspective of special educators

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

40. Perspectives of Student Teachers' toward Face to Face versus Online Learning during COVID 19 Pandemic

Name of the Student : Ms. Radha Rawat
Name of the Guide : Dr. Raju Arakh

41. Teacher centered vs Student centered approach: Student Teachers' Perceptions about teacher preparation in general and special education

Name of the Student : Mr. Anuj Mishra
Name of the Guide : Dr. Varsha Gathoo

42. Adaptability of Special Teachers to alternate Teaching during Covid-19 pandemic

Name of the Student : Mr. Anju Bala
Name of the Guide : Dr. Varsha Gathoo

43. श्रवण बाधित विद्यार्थियों को उच्च शिक्षा ग्रहण करने में प्रभावित करने वाले कारक

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

44. Mitigating Therapeutic Management Challenges of CWHI during COVID 19 Pandemic

Name of the Student : Mr. Raghavendra Yadav
Name of the Guide : Dr. Gayatri Ahuja

45. Young HI children's online learning during COVID -19 pandemic: Parents' beliefs and attitudes

Name of the Student : Mr. Ritender
Name of the Guide : Dr. Varsha Gathoo

PUBLICATIONS

1. Chatterjee, I. and Gore, G. (2020). A comparative study between tinnitus masking and tinnitus retraining therapy on perceived tinnitus handicap and cognition. *International Journal of Otolaryngology and Head Neck Surgery*, 6(6):1091-1095. DOI:[10.18203/issn.2454-5929.ijohns20202218](https://doi.org/10.18203/issn.2454-5929.ijohns20202218)
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https://www.ijhsr.org/IJHSR_Vol.10_Issue.6_June2020/27.pdf
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9. Mondal, J.C., Chatterjee, I., Kumar, S., and Chakraborty, S. (2020). Efficacy of Auditory Verbal Therapy on Listening and Linguistic Skills of a child with Bimodal Hearing. *Bengal Journal of Otolaryngology and Head and Neck Surgery*, Vol-28, No.-3.
10. Pani, S., Sahoo, A., Chatterjee, I., and Dutta, P. (2020). The Effect of Stimulus Rate in Chirp and Click Evoked Auditory Brainstem Response in Adults with Normal Hearing Sensitivity. *Bengal Journal of Otolaryngology and Head and Neck Surgery*, Vol-28, No.-3.
11. Bhatt, SS., Kabra, S. & Chatterjee, I. (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*. <https://doi.org/10.1007/s12070-021-02448-5>

12. Sharma, K., Chatterjee, I., Kundu, P., Chatterjee, A.S., Pani, S. (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.
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26. Ahuja, G., & Rawat, S. (2020). Mantra for Pandemic using Astral and Cosmic Energy through Soul Rendering Meditation. Military Psychology Response to Post Pandemic Reconstruction. Volume 1, ISBN 978-81-316-1181.
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6.3. INSTITUTE PUBLICATIONS

1. NINAD : AYJNISHD(D) published NINAD news letter quarterly highlighting the major activities and achievements of the Institute in each quarter. NINAD is for private circulation and is shared among various NGOs working in rehabilitation sector.

2. Kallol : AYJNISHD(D) released student magazine for the year 2020-21. Kallol showcases the talents, creativity and achievements of students studying in various courses.

