

OUTREACH SERVICES

The institute carries out various outreach services on communication and its disorders in different parts of the country through the Department of Prevention of Communication Disorders (POCD) and Tele-Centre for Prevention of Communication Disorders (TCPD). Also, the Institute has 16 Outreach Service Centres (OSCs) and nine New-born Screening Centres across the country. The major outreach services carried out during the reporting year are given below.

Communication Disorder Screening Programmes

The Institute conducted screening programmes for communication disorders in different settings and localities. The individuals participating in the programmes were checked for speech, language and hearing disabilities and provided with diagnostic and therapeutic services.

New-born/Infant Screening

This programme focuses on screening neonates and infants who are at risk for communication disorders using various tools such as High-Risk Register for communication disorders, Behavioral Observation Audiometry, Oto Acoustic Emission Screening and Screening Checklists.

During the reporting year, screening programme was carried out at the hospitals in Mysuru, Outreach Service Centres (OSC) and their nearby hospitals and Newborn Screening Centres (NBS) of the Institute functioning in different parts of the country. A total of 40132 newborns were screened. Of these, 6074 were at risk for communication disorders. The details are given in table 1.

Table 1: Newborn/ Infant Screening

| Sl. No | Hospitals/Immunization Centres | Total screened | Total No. at risk |
|-------------------------------------|--|----------------|-------------------|
| I. Hospitals in Mysuru | | | |
| 1. | Ashwini Nursing Home | 158 | 02 |
| 2. | Cheluvamba Immunization Centre | 100 | 01 |
| 3. | Combined Hospital | 108 | 04 |
| 4. | CSI Holdsworth-Memorial Hospital | 221 | 20 |
| 5. | Gopalagowda Hospital | 12 | - |
| 6. | Govt. Jayanagar Maternity Hospital | 901 | 28 |
| 7. | Kamakshi Hospital (KH) | 738 | 08 |
| 8. | Kamala Raman Hospital | 21 | 01 |
| 9. | KR Hospital, Cheluvamba Hospital | 5678 | 138 |
| 10. | Kyathmanalli Immunization Centre | 319 | 09 |
| 11. | Mahadeshwara Nursing Home | 187 | 04 |
| 12. | Makkalakoota Immunization Centre | 191 | 03 |
| 13. | NPC Maternity Hospital | 303 | 09 |
| 14. | Shree Devi Nursing Home | 192 | 02 |
| 15. | Sigma Hospital | 317 | 12 |
| 16. | SMTDH | 55 | 3 |
| 17. | SMTDH Immunization Centre | 12 | - |
| 18. | Sri Chamundeshwari nursing home | 94 | 03 |
| Total | | 9607 | 247 |
| II. Outreach Service Centres | | | |
| 1. | All India Institute of Medical Sciences, Bhubaneswar, Orissa | 1508 | 410 |
| 2. | All India Institute of Medical Sciences, Bhopal, Madhyapradesh | 57 | 01 |
| 3. | All India Institute of Medical Sciences, Jodhpur, Rajasthan | 20 | 01 |
| 4. | Belagavi Institute of Medical Science, Belagavi, Karnataka | 2391 | 233 |
| 5. | Bidar Institute of Medical Sciences, Bidar, Karnataka | 2479 | 1834 |
| 6. | Gulbarga Institute of Medical Sciences, Kalaburgi, Karnataka | 1989 | 620 |
| 7. | Indira Gandhi Institute of Medical Sciences, Patna, Bihar | 369 | 146 |
| 8. | Karnataka Institute of Medical Sciences, Hubli, Karnataka | 2118 | 644 |
| 9. | Kodagu Institute of Medical Science, Kodagu, Karnataka | 2297 | 761 |

| | | | |
|--|--|--------------|-------------|
| 10. | Mahatma Gandhi Memorial Medical College, Indore, Madhya Pradesh | 77 | 38 |
| 11. | Primary Health Centre (Under Karuna trust), Gumballi, Karnataka | 157 | 17 |
| | Taluk Hospital, Yelandur, Gumballi, Karnataka* | 28 | 6 |
| | Community Health Centre, Santhemarahalli, Gumballi, Karnataka* | 203 | 30 |
| 12. | Sub-divisional Hospital, Sagara Taluk, Karnataka | 2078 | 121 |
| 13. | Sub-divisional Hospital, Kundapura, Karnataka | 21 | 21 |
| 14. | Taluk Hospital, Nanjangud, Karnataka | 795 | 45 |
| | Community Health Centre, Bannuru, Karnataka* | 17 | 0 |
| | Community Health Centre, Hullahalli, Karnataka* | 46 | 2 |
| 15. | Taluk General Hospital, KR. Pete, Mandya, Karnataka | 260 | 11 |
| | Sub-divisional hospital, K R Nagar Taluk, Yadavagiri, Mysore, Karnataka* | 778 | 38 |
| | Primary health center, Akkihebbalu, Mandya, Karnataka* | 14 | 1 |
| 16. | Vivekananda Memorial hospital, H. D. Kote, Sarguru, Karnataka | 341 | 31 |
| | St. Mary's Hospital, HD kote, Sarguru, Karnataka* | 928 | 137 |
| | Taluk Hospital, H.D. Kote- Immunization, Sarguru, Karnataka* | 881 | 137 |
| Total | | 19852 | 5285 |
| III. New-born Screening Centres | | | |
| 1. | All India Institute of Medical Sciences, Patna | 613 | 26 |
| 2. | All India Institute of Physical Medicine and Rehabilitation, Mumbai | 450 | 53 |
| 3. | All India Institute of Physical Medicine and Rehabilitation, Mumbai (TLH) | 23 | 01 |
| 4. | Indira Gandhi Medical College, Shimla | 570 | 46 |
| 5. | Jawaharlal Institute of Postgraduate Medical Education and Research JIPMER, Puducherry | 1229 | 168 |
| 6. | Jawaharlal Nehru Medical College & Hospital, JLNMCH, Bhagalpur, Bihar | 1575 | 67 |
| 7. | King George's Medical University KGMU, Lucknow, Uttar Pradesh | 2893 | 71 |
| 8. | Post Graduate Institute of Medical Education and Research, New Delhi | 1044 | 101 |
| 9. | Rajendra Institute of Medical Sciences, Ranchi | 221 | 8 |
| 10. | Sri Devaraj Urs Academy of Higher Education and Research, Kolar, Karnataka | 2055 | 01 |
| Total | | 10673 | 542 |
| Grand Total | | 40132 | 6074 |

* Nearby Health Centres of the Outreach Service Centres

Tele-follow up for risk babies

The new-borns/infants referred during the new-born screening were followed up through telephone calls to parents/caregivers and advised for detailed evaluation at the Department of Clinical Services at AIISH, Mysuru or at the NBS centers /OSCs. A complete test battery was administered for those clients who came for follow-up. The details are given in table 2.

Table 2: Tele - follow up

| Categories | AIISH | OSC | NBS Centers |
|--|-------------|-------------|-------------|
| Normal speech, language & hearing milestones | 1708 | 3441 | 1857 |
| Mortality | 32 | 142 | 16 |
| Referred for detailed evaluation | 37 | 50 | 19 |
| Total Phone follow up | 1777 | 3633 | 1892 |

The new-borns/infants who were found at risk for communication disorder even after phone follow up are advised and called up for detailed evaluation at AIISH, Mysuru or at the respective NBS Centers/OSCs. A complete test battery was administered for these clients who came for follow-up. The details are given in table 3.

Table 3: Follow up Evaluation for Newborns and Infants

| Categories | AIISH | OSC | NBS Centers | Total |
|------------------------|-------|-----|-------------|-------|
| Clinically Normal (CN) | 86 | 376 | 182 | 644 |
| Hearing disorder (HI) | 11 | 36 | 30 | 77 |
| Speech Disorder (SD) | - | 8 | 3 | 11 |

Industrial Screening

The Institute conducts hearing screening and screening for other communication disorders for the industrial workers and employees who are repeatedly exposed to loud noises at their work settings. Totally, 688 employees were screened, and among them, 237 were identified with hearing impairment. The employees were also oriented on harmful effects of noise on hearing, importance of hearing conservation program and also use of hearing protective devices in noisy areas.

Student Screening

Nursery, primary school, secondary school and Pre-University college students were screened for communication disorders as a part of the student screening programme during the reporting year. Totally, 904 students were screened and among them 37 (4%) were identified with ear-related disorders, 37 (4%) with hearing loss and 21 (2%) with speech-language disorders. They were recommended for follow-up at the Institute.

Elderly Screening

Speech, language and hearing evaluations were carried out for elderly citizens in different localities. A total of 137 elderly citizens were screened for speech, language and hearing disorders in various community based camps. Of them, 60 persons passed the screening test. Among the rest, 48 had hearing loss and seven had speech, language, cognitive and swallowing disorders. Thirty-two of the 48 persons with hearing loss had ear infections. 12 persons identified in the screening camps were rehabilitated later in the nearby Outreach Service Centre.

Camp-based Screening

The Institute organized thirty-one camps for screening the citizens for communication disorders in various localities across Karnataka during the reporting year. The camps were organized under the aegis of the Department of POCD, Outreach Service Centres and the New-born Screening Centres of the Institute. The expert speech, hearing and allied health professionals of the institute screened 1518 individuals in the camps. The details are given in table 4.

Table 4: Camp-based Screening

| Sl. No. | Date | Location | No. of Cases |
|---------|-------------------------------|--|--------------|
| 1. | 3.04.2021 | KSRTC Bus Depot, Kolar | 54 |
| 2. | 20.04.2021 | Lanke, Sarguru | 15 |
| 3. | 28.04.2021 | Bidrahalli, Sarguru | 12 |
| 4. | 30.04.2021 | Mullur, Sarguru | 7 |
| 5. | 20.06.2021 | OSC Sarguru | 20 |
| 6. | 5.07.2021 | Kenchanahalli, Moorbant, Borethevaremati, Jagane kote, Kempahadi, hosahalli hadi, Dhonnemadana hadi, HD Kote taluk, Mysuru | 13 |
| 7. | 29.07.2021 | Huskoor hadi, Devalapurahadi, Kalla halli hadi (A&B), Udugi hadi, Seegodi hadi, Kadabegur, Adnahalli hadi, Kurnegala hadi, HD Kote taluk, Mysuru | 16 |
| 8. | 3.08.2021 | Basavanagiri hadi, Boodaluruhadi, Bommulapurahadi Asthi hadi, Hosahadi HD Kote taluk, Mysuru | 19 |
| 9. | 11.08.2021 | Katlla, Nemnallihadi Kemppepura, Kanthanahadi HD Kote taluk, Mysuru | 17 |
| 10. | 27.08.2021 | Ballehadi, Goluruhadi, Bavali, Anemalahadi, Machurhadi, Thinmanahosahadi, HD Kote taluk Mysuru | 08 |
| 11. | 18.09.2021 | Niveditha Nagar, Mysuru | 93 |
| 12. | 22.09.2021 | District Rural Development Cell, Biligere | 49 |
| 13. | 24.09.2021 | District Rural Development Cell, Periyapatna | 56 |
| 14. | 9.10.2021 | Bigdhgalkatte, Kundapura Taluk, Udupi | 57 |
| 15. | 10.10.2021 | Madeshwara Colony, Harapanahalli Hobli, Amachvadi Chamrajnagar | 105 |
| 16. | 20.10.2021 | Yaraganahalli, Mysuru | 130 |
| 17. | 23.10.2021 | Ambedkar Bhawan, HD Kote taluk, Mysuru | 30 |
| 18. | 29.10.2021 | KSRTC Bus Depot, Malur, Kolar | 64 |
| 19. | 3.12.2021 | PHC Gumballi, Nanjangud taluk, Mysuru | 37 |
| 20. | 12.12.2021 | Sneha Seva Trust, Bengaluru | 86 |
| 21. | 18.12.2021 | Government School, Bengaluru | 57 |
| 22. | 17.02.2022 | Government School, Kollegala | 96 |
| 23. | 27.02.2022 | Sai Mandir, Raja Bazar, Patna, Bihar | 60 |
| 24. | 2.03.2022 to 5.03.2022 | AIIPMR, Mumbai | 38 |
| 25. | 3.03.2022 | Chinmaya Vidya Kendra High School, Ejipura, Bengaluru | 28 |
| 26. | 3.03.2022 | Taluk Hospital, KR Nagara, Mysuru | 10 |
| 27. | 9.03.2022 | State Home for Women, Vijayanagar, Mysuru | 39 |
| 28. | 10.03.2022 & 14.03.2022 | Shiralkoppa Community Healthcare Centre, Shiralkoppa, Shikaripur, Shimogga and SDH Sagara, Shimogga, Karnataka | 11 |

| | | | |
|-----|------------|--|-----|
| 29. | 17.03.2022 | Rotary Club, Station Road, Hospete | 116 |
| 30. | 23.03.2022 | Maddur Colony, Gundlupet, Chamrajnagar | 53 |
| 31. | 29.03.2022 | Sarkari Madhari Hiriya Prathamika Shaale, Hannur | 122 |

Bedside Screening

Bedside screening for communication disorders was carried out for the inpatients in K.R. Hospital, Mysuru and KIMS hospital, Hubli. Totally, twelve persons were screened. Among them, two were identified with motor speech disorders, three with multiple disorders and seven with swallowing disorders. They were referred to AIISH for further evaluation.

Clinical Services at the Outreach Service Centers (OSCs)

Diagnostic and therapeutic services on communication disorders were provided at the Outreach Service Centres (OSCs) of the institute located in different parts of the country. Totally, 9206 persons were registered for availing clinical services at the 20 OSCs. The clients were evaluated for speech-language and hearing disorders and provided with speech-language therapy and hearing aids. The details are given in table 5 and table 6.

Table 5: Speech-Language and Hearing evaluation at the Outreach Service Centres

| Sl. No | OSC | Normal | ENT | Total (AUD) | Total (S&P) | Total |
|--------|---|--------|-----|-------------|-------------|-------|
| 1. | Sub-divisional Hospital (PHC), Sagara | 09 | 31 | 45 | 03 | 52 |
| 2. | Primary Health Centre (PHC), Gumballi | 06 | 31 | 48 | 01 | 60 |
| 3. | Vivekananda Memorial Hospital, Sarguru | 13 | 303 | 263 | 17 | 569 |
| 4. | Taluk Hospital, Nanjangud | 08 | 131 | 227 | 08 | 343 |
| | Community Health Centre (CHC), Bannuru | 0 | 07 | 16 | 0 | 23 |
| | Community Health Centre (CHC), Hullahalli | 0 | 92 | 64 | 03 | 159 |
| 5. | Taluk General Hospital, KR Pete | 55 | 58 | 262 | 14 | 340 |
| | Taluk General Hospital, KR Nagara | 06 | 05 | 22 | 01 | 34 |
| | Primary Health Centre, Akkihebbalu | 04 | 00 | 09 | 02 | 15 |
| 6. | Gulbarga Institute of Medical Sciences | 44 | 97 | 227 | 90 | 440 |
| 7. | Kodagu Institute of Medical Sciences, Madikeri | 191 | 195 | 790 | 154 | 1062 |
| 8. | Belagavi Institute of Medical Sciences, Belgaum | 49 | 200 | 316 | 128 | 496 |

| | | | | | | |
|--------------|---|------------|-------------|-------------|-------------|-------------|
| 9. | Bidar Institute of Medical Sciences, Bidar | 10 | 42 | 166 | 84 | 271 |
| 10. | All India Institute of Medical Sciences, Bhubaneswar, Orissa | 366 | 493 | 895 | 324 | 2052 |
| 11. | Karnataka Institute of Medical Sciences, Hubli | 102 | 0 | 1974 | 317 | 2375 |
| 12. | Indira Gandhi Institute of Medical Sciences, Patna | 03 | 0 | 02 | 148 | 152 |
| 13. | All India Institute of Medical Sciences, Bhopal, | 21 | 107 | 128 | 77 | 205 |
| 14. | All India Institute of Medical Sciences, Jodhpur | 00 | 00 | 00 | 52 | 52 |
| 15. | Community Health Center, Malappuram, Kerala | 02 | 10 | 12 | 69 | 81 |
| 16. | Gandhi Medical College, Bhopal, Madhya Pradesh | 04 | 75 | 75 | 13 | 167 |
| 17. | Government Medical College Hospital, Surguja, Chattisgarh | 00 | 20 | 20 | 03 | 23 |
| 18. | Lok Nayak Hospital, New Delhi | 00 | 00 | 00 | 122 | 122 |
| 19. | Mahatma Gandhi Memorial Medical college, Indore, Madhya Pradesh | 01 | 17 | 18 | 29 | 47 |
| 20. | Subdivision Hospital, Kundapura, Karnataka | 05 | 59 | 59 | 07 | 66 |
| Total | | 899 | 1973 | 5638 | 1666 | 9206 |

Table 6: Speech-Language and Hearing Rehabilitation at the Outreach Service Centres

| Sl No. | OSC | Hearing Aids Dispensed | Speech-language therapy | | |
|--------|---|------------------------|-------------------------|-----------------|--------------|
| | | | No. of clients | No. of sessions | |
| | | | | Regular Therapy | Tele therapy |
| 1. | Sub-divisional Hospital, Sagara taluk, Sagara, Karnataka | 10 | 135 | 169 | 294 |
| 2. | Primary Health centre (Under Karuna trust), Gumballi, Karnataka | 76 | 71 | 157 | 80 |
| 3. | Vivekananda Memorial hospital, HD kote, Sarguru, Karnataka | 39 | 113 | 552 | 75 |
| 4. | Taluk Hospital, Nanjangud, Karnataka | 31 | 46 | 167 | 127 |
| | Community Health Centre, Hullahalli, Karnataka | 01 | 16 | 65 | 56 |
| 5. | Taluk General Hospital, KR Pete, Mandya, Karnataka | 41 | 34 | 141 | 23 |
| 6. | Gulbarga Institute of Medical Sciences, Kalaburgi, Karnataka | 00 | 107 | 225 | 274 |
| 7. | Kodagu Institute of Medical Science, Kodagu, Karnataka | 71 | 127 | 693 | 159 |
| 8. | Belagavi Institute of Medical Science, Belagavi, Karnataka | 14 | 55 | 167 | 89 |
| 9. | Bidar Institute of Medical Sciences, Bidar, Karnataka | 00 | 49 | 168 | 67 |

| | | | | | |
|-----|--|------------|-------------|-------------|-------------|
| 10. | All India Institute of Medical Sciences, Bhubaneswar, Orissa | 00 | 638 | 810 | 0 |
| 11. | Karnataka Institute of Medical Sciences, Hubli, Karnataka | 00 | 139 | 268 | 53 |
| 12. | Indira Gandhi Institute of Medical Sciences, Patna, Bihar | 00 | 129 | 148 | 360 |
| 13. | All India Institutes of Medical Sciences (AIIMS), Jodhpur, Rajasthan | 00 | 64 | 87 | 00 |
| 14. | Lok Nayak Hospital, New Delhi | 00 | 64 | 100 | 00 |
| 15. | All India Institutes of Medical Sciences (AIIMS), Bhopal, Madhya Pradesh | 00 | 24 | 75 | 00 |
| 16. | Gandhi Medical College, Bhopal, Madhya Pradesh | 00 | 13 | 29 | 00 |
| 17. | Community Health Center, Malappuram, Kerala | 00 | 59 | 215 | 00 |
| 18. | Government Medical College Hospital, Surguja, Chattisgarh | 00 | 02 | 01 | 00 |
| 19. | Mahatma Gandhi Memorial Medical college, Indore, Madhya Pradesh | 00 | 37 | 19 | 00 |
| 20. | Subdivision Hospital, Kundapura, Karnataka | 00 | 07 | 25 | 00 |
| | Total | 283 | 1929 | 4281 | 1657 |

Tele-Assessment and Tele-Intervention Services

The Tele-Centre for Persons with Communication Disorders (TCPD) of the Institute offers tele-assessment and tele-intervention services to the doorsteps of persons with communication disorders across the country and abroad. The details are given in table 7, 8 & 9.

Table 7: Disorder-wise Tele-Assessment and Intervention

| | Language | | Fluency | | Speech | | Voice | | Dysphagia | | Multiple | |
|-------------------|--|----------|---------|----------|--------|----------|-------|----------|-----------|----------|----------|----------|
| | Cases | Sessions | Cases | Sessions | Cases | Sessions | Cases | Sessions | Cases | Sessions | Cases | Sessions |
| Paediatric | 64 | 841 | 6 | 38 | 3 | 26 | - | - | - | - | 4 | 99 |
| Adult | 13 | 306 | 7 | 74 | 5 | 159 | 1 | 16 | | - | - | - |
| Geriatric | 3 | 63 | - | - | 2 | 45 | - | - | 2 | 9 | 1 | 27 |
| | Paediatric: 0-18years; Adults: 18-65 years; Geriatric: 65 years& above | | | | | | | | | | | |

Table 8: Country-wise Tele-assessment and Intervention

| Country | No. of Cases | No. of Sessions |
|--------------|--------------|-----------------|
| Dubai | 2 | 24 |
| India | 105 | 1605 |
| UK | 3 | 65 |
| US | 1 | 9 |
| Total | 111 | 1703 |

Table 9: State-wise Tele-assessment and Intervention in India

| States | No. of Cases | No. of Sessions |
|--------------------|---------------------|------------------------|
| Andhra Pradesh | 2 | 15 |
| Assam | 4 | 36 |
| Bihar | 1 | 1 |
| Chandigarh | 1 | 2 |
| Chhattisgarh | 2 | 19 |
| Delhi | 4 | 56 |
| Himachal Pradesh | 1 | 13 |
| Jharkhand | 2 | 35 |
| Karnataka | 54 | 780 |
| Kerala | 13 | 264 |
| Maharashtra | 3 | 80 |
| Orissa | 2 | 25 |
| Punjab | 1 | 27 |
| Rajasthan | 3 | 8 |
| Secunderabad | 1 | 41 |
| Telangana | 2 | 7 |
| Tamil Nadu | 4 | 164 |
| Uttar Pradesh | 1 | 32 |
| Grand Total | 101 | 1605 |