5

Clinical Services

The institute offers a wide variety of clinical services to those who are suffering from communication disorders in the country. Clinical activities of the Institute can be broadly categorized as: (a) General Clinical Services (b) Specialized Clinical Services (c) Clinical Outreach Services (d) Clinical Electronic Services and (e) Clinical Support Services.

**I. General Clinical Services**

The general clinical services in the Institute are provided under the aegis of the department of Clinical Services. Highly skilled clinical practitioners of the department of Audiology, Clinical Services, Speech - Language Pathology, Speech - Language Sciences along with allied professionals at the department of Otorhinolaryngology and Clinical Psychology have been delivering quality outpatient services. Apart from them, the Department of Clinical Services also offers specialized clinical care of a range of medical and allied health fields to the patients who are referred by the OPD’s of Audiology and Speech – Language Pathology.

Hundreds of patients visit the institute daily. In the reporting year, a total of 50504 clients registered for availing the clinical services at the institute. This includes 19,551 new and 30953 repeat cases. Figure 1 shows the number of patient registered in the past 3 years. There is an increase in the number of patients registered at the institute in the current year.

Figure 1. Number of Patients Registered in 3 Years

**Speech and Language Assessment and Rehabilitation :** During the year under review, a total of 6940 registered clients were evaluated at Speech and language outpatient unit and among them 396 persons were found to be normal. The remaining 6544 were diagnosed to have language disorders (4490), Voice disorders (688), fluency disorders (650) articulation disorders (489) and multiple disorders (227). The details are given in Table 5.

**Table 5 Here**

Clients requiring further management were given various speech/language therapies for a number of daily sessions of 45 minutes duration. During the reporting year, a total of 48,660 such therapy sessions were conducted for 6286 persons with speech/language disorders, the details of which are given in table . Support and guidance were also given to the family members for home training. In addition, the needy patients were referred to other appropriate therapy units of the Institute. The complete details of disorder-wise distribution of therapy are given in table 6.

**Table 5. Disorders-wise distribution of diagnostic evaluation seen in OPD- Speech/ language.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | | | |
| Disorders | Language Disorders | | | Voice  Disorders | | | Fluency Disorders | | | Articulation Disorders | | | Multiple  Disorders | | Normal | | |  |
| **Months** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **G** | **C** | **A** | **C** | **A** | **G** | **Total** |
| April | 505 | 5 | 4 | 25 | 34 | 19 | 69 | 27 | 3 | 69 | 11 | 0 | 19 | 1 | 26 | 25 | 2 | 844 |
| May | 373 | 3 | 2 | 21 | 31 | 16 | 55 | 22 | 2 | 67 | 16 | 4 | 21 | 2 | 21 | 11 | 2 | 669 |
| June | 359 | 3 | 3 | 11 | 36 | 9 | 39 | 18 | 1 | 22 | 5 | 3 | 27 | 4 | 3 | 16 | 2 | 561 |
| July | 429 | 4 | 2 | 19 | 29 | 10 | 33 | 17 | 1 | 21 | 5 | 2 | 27 | 3 | 11 | 19 | 3 | 635 |
| Aug | 272 | 3 | 1 | 18 | 27 | 7 | 23 | 17 | 2 | 24 | 2 | 1 | 14 | 1 | 12 | 8 | 0 | 432 |
| Sep | 300 | 6 | 3 | 7 | 28 | 8 | 22 | 18 | 0 | 19 | 6 | 1 | 19 | 3 | 11 | 12 | 2 | 465 |
| Oct | 356 | 5 | 4 | 8 | 17 | 10 | 56 | 24 | 1 | 39 | 8 | 2 | 22 | 2 | 19 | 11 | 2 | 586 |
| Nov | 334 | 4 | 2 | 31 | 37 | 8 | 29 | 13 | 0 | 19 | 6 | 2 | 19 | 1 | 8 | 15 | 2 | 530 |
| Dec | 403 | 3 | 3 | 20 | 36 | 15 | 31 | 19 | 1 | 32 | 4 | 2 | 20 | 7 | 16 | 25 | 4 | 641 |
| Jan | 343 | 3 | 1 | 16 | 34 | 6 | 23 | 16 | 1 | 20 | 7 | 5 | 9 | 1 | 14 | 23 | 0 | 522 |
| Feb | 388 | 4 | 2 | 13 | 25 | 15 | 10 | 11 | 1 | 16 | 5 | 4 | 3 | 2 | 19 | 11 | 5 | 534 |
| Mar | 353 | 3 | 2 | 5 | 27 | 10 | 21 | 23 | 1 | 29 | 8 | 3 | 0 | 0 | 17 | 16 | 3 | 521 |
| Total | **4415** | **46** | **29** | **194** | **361** | **133** | **411** | **225** | **14** | **377** | **83** | **29** | **200** | **27** | **177** | **192** | **27** | **6940** |
| Disorder wise | **4490** | | | **688** | | | **650** | | | **489** | | | **227** | | **396** | | |
| Overall total | **6940** | | | | | | | | | | | | | | | | | |

C: Child, A: Adult, G: Geriatric

**Table 6. Therapeutic Details of Speech and language Disorders**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | | | | | | | |
| **Disorders** | **Language disorders** | | | **Voice**  **disorders** | | | **Fluency disorders** | | | **Articulation disorders** | | | **MULTIPLE** | | | **Total** |
| **Months** | **Child** | **Adult** | **Geriatric** | **Child** | **Adult** | **Geriatric** | **Child** | **Adult** | **Geriatric** | **Child** | **Adult** | **Geriatric** | **Child** | **Adult** | **Geriatric** |  |
| April | 403 | 12 | 2 | 9 | 0 | 0 | 5 | 15 | 0 | 8 | 0 | 0 | 35 | 1 | 0 | **490** |
| May | 474 | 46 | 7 | 10 | 15 | 9 | 2 | 3 | 0 | 3 | 16 | 4 | 20 | 2 | 0 | **611** |
| June | 704 | 55 | 3 | 5 | 1 | 1 | 12 | 0 | 0 | 39 | 3 | 0 | 93 | 6 | 0 | **922** |
| July | 418 | 12 | 1 | 15 | 0 | 0 | 14 | 10 | 0 | 8 | 0 | 0 | 33 | 0 | 0 | **511** |
| Aug | 343 | 80 | 9 | 0 | 17 | 6 | 27 | 16 | 0 | 62 | 9 | 0 | 156 | 36 | 12 | **773** |
| Sep | 288 | 11 | 3 | 0 | 3 | 2 | 6 | 14 | 0 | 7 | 0 | 0 | 70 | 1 | 0 | **405** |
| Oct | 331 | 14 | 4 | 4 | 5 | 1 | 23 | 20 | 0 | 14 | 1 | 0 | 102 | 3 | 0 | **522** |
| Nov | 312 | 14 | 6 | 0 | 6 | 2 | 10 | 6 | 0 | 7 | 2 | 0 | 69 | 2 | 0 | **436** |
| Dec | 246 | 12 | 5 | 2 | 5 | 6 | 4 | 4 | 0 | 10 | 1 | 0 | 70 | 0 | 0 | **365** |
| Jan | 270 | 12 | 4 | 2 | 5 | 5 | 3 | 2 | 1 | 8 | 4 | 1 | 73 | 1 | 0 | **391** |
| Feb | 304 | 11 | 4 | 1 | 6 | 2 | 12 | 11 | 0 | 8 | 2 | 1 | 72 | 2 | 0 | **436** |
| Mar | 294 | 10 | 9 | 1 | 6 | 1 | 11 | 15 | 0 | 9 | 4 | 0 | 62 | 2 | 0 | **424** |
| Total | **4387** | **289** | **57** | **49** | **69** | **35** | **129** | **116** | **1** | **183** | **42** | **6** | **855** | **56** | **12** | **6286** |
| Disorder wise | **4733** | | | **153** | | | **246** | | | **231** | | | **923** | | |
| Over all | **6286** | | | | | | | | | | | | | | |

**Audiological Assessment and Rehabilitation:** The institute has been serving persons with hearing impairment of all ages across the country. The outpatient unit of Audiology Department provides complete diagnostic and re-habilitative audiological services.

In the Current year, totally 17,832 ears of 11063 clients were screened and among them 3459 were found to have normal hearing. The remaining 14373 ears had sensory-neural hearing loss (7507), mixed hearing loss (4270) and conducive hearing loss (2596).Month-wise distribution of hearing evaluation done is given figure.

Various audiological tests like pure tone audiometry, speech audiometry , immittance audiometry, ABR, BOA and OAE were conducted for the affected persons using state-of the-art equipments.

The hearing aid trial unit of the institute evaluated 10597 clients diagnosed with hearing problems, to determine the appropriate hearing aids and assistive learning devices to them.The unit also determined the candidacy for cochlear implants.The detailed statistics on hearing aid trial and hearing aids prescribed during the report year are given in table 6.

**Table 6 :** Clients seen in hearing aid trial unit.

|  |  |  |  |
| --- | --- | --- | --- |
| Total no. of clients evaluated for hearing devices | | | 10597 |
| No. of clients seen for hearing aid trial at AIISH | | | 8761 |
| No. of clients seen for hearing aid trial at Camps | | | 751 |
| No. of hearing aid prescribed at camps | | | 623 |
| No. of clients counseled | | | 4038 |
| Hearing aids prescribed | | | 5061 |
| * Body level | | 3740 |  |
| - ADIP | 3569 |  |  |
| - Purchased | 171 |  |  |
| * Analogue BTE | | 23 |  |
| * Digital BTE | | 1195 |  |
| * Trimmer Digital BTE | | 102 |  |
| * Digital ITC | | 49 |  |
| * Digital CIC | | 9 |  |
| No. of clients recommended | | | 1922 |
| * Auditory training | | 1127 |  |
| * Speech reading | | 795 |  |
| No. of hearing aids prescribed on exchange | | | 274 |
| No. of clients for whom aided ASSR done | | | 6 |
| No. of unaided/aided audiograms | | | 609 |
| No. of unaided/aided audiograms for CI | | | 29 |
| Candidacy for CI | | | 45 |
| Mapping for CI | | | 65 |
| Aided VRA | | | 132 |
| Programming of digital hearing aids | | | 882 |
| No. of certificates issued for DL/LIC/Financial aid | | | 258 |
| No. of IGO done | | | 55 |
| No. of EAC of hearing aids done | | | 360 |
| No. of clients tested in Hindi | | | 316 |
| No. of clients recommended for retrial with custom ear mould | | | 336 |
| No. of clients for whom ALDs tried | | | 3 |
| No. of clients referred to AIISH | | | 67 |

Custom ear moulds were made for the clients who were prescribed hearing aids. 5421 ear impressions of 3411 clients were taken. 3247 ear moulds were made free of cost. The details of ear mould statistics are given in table 7.

**Table 7**: No. of clients seen in ear moulds lab.

|  |  |
| --- | --- |
| No. of clients seen | 3411 |
| No. of impressions taken | 5421 |
| No. of ear moulds made free-of-cost | 3247 |
| No. of ear moulds made on 50% payment | 0 |
| No. of ear moulds made on 100% payment | 2175 |
| No. of ear moulds completed | 5103 |
| No. of ear moulds issued | 4674 |
| No. of hard regular moulds made | 3210 |
| No. of hard shell moulds made | 160 |
| No. of soft moulds made | 1940 |
| No. of ITC impression made | 45 |
| No. of swimmer plug (soft) | 49 |
| No. of molds with acoustic modifications | 4 |
| No. of ear moulds impression taken at camps | 342 |
| No. CPL impressions received | 314 |
| No. of CPL moulds completed | 311 |
| No. of CPL moulds defective | 3 |

Age-wise statistics of clients seen in hearing evaluation (HE), hearing aid trial (HAT) & counseling and ear mold (EM) sections of the department of Audiology is given in the Table 18.

Table 18**:** *Age-wise statistics*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Age**  **group** | **Hearing**  **Evaluation** | | **Hearing Aid**  **Trial** | | **HAT**  **Counseling** | | **Ear moulds** | |
| **Male** | **Female** | **Male** | **Female** | **Male** | **Female** | **Male** | **Female** |
| 00-01 | 163 | 108 | 132 | 104 | 48 | 27 | 61 | 58 |
| 02-05 | 644 | 513 | 908 | 683 | 174 | 149 | 344 | 304 |
| 06-10 | 437 | 376 | 516 | 379 | 178 | 117 | 180 | 129 |
| 11-15 | 347 | 273 | 294 | 218 | 117 | 74 | 114 | 97 |
| 16-20 | 396 | 301 | 241 | 161 | 96 | 69 | 101 | 65 |
| 21-25 | 412 | 297 | 215 | 130 | 114 | 66 | 73 | 52 |
| 26-30 | 386 | 306 | 193 | 89 | 94 | 69 | 72 | 47 |
| 31-35 | 351 | 256 | 150 | 128 | 55 | 55 | 49 | 34 |
| 36-40 | 351 | 268 | 166 | 139 | 108 | 85 | 63 | 53 |
| 41-45 | 326 | 236 | 176 | 121 | 81 | 73 | 62 | 50 |
| 46-50 | 311 | 239 | 210 | 120 | 119 | 82 | 76 | 66 |
| 51-55 | 347 | 219 | 244 | 143 | 143 | 88 | 96 | 55 |
| 56-60 | 370 | 262 | 325 | 170 | 168 | 96 | 121 | 64 |
| 61-65 | 416 | 256 | 398 | 165 | 235 | 131 | 153 | 87 |
| 66-70 | 391 | 262 | 415 | 198 | 262 | 128 | 182 | 76 |
| 71-75 | 351 | 186 | 368 | 133 | 225 | 130 | 133 | 52 |
| 76-80 | 227 | 95 | 295 | 96 | 161 | 53 | 107 | 33 |
| 81-85 | 135 | 69 | 169 | 48 | 74 | 56 | 50 | 19 |
| 86-90 | 60 | 27 | 60 | 35 | 38 | 15 | 20 | 8 |
| 91+ | 10 | 6 | 19 | 7 | 7 | 7 | 4 | 2 |
| **Total** | 6431 | 4555 | 5494 | 3267 | 2497 | 1570 | 2061 | 1351 |
| **10,986** | | **8,761** | | **4,067** | | **3,412** | |
| **Grand Total – 27,226** | | | | | | | | |

**Psychological Assessment and Rehabilitation :**A number of patients registered with the Institute undergo routine psychometric assessment at the psycho-diagnostic clinic.

During the reporting year, 4402 new cases and 1175 repeat cases were seen at the clinic. These include patients with mental retardation (1862 cases),expressive language disorders (941), hearing loss (4481), learning disability (457), stuttering (398), misarticulation (75), functional voice disorders (7), voice problem (16), and others (920).

The patients were provided with appropriate therapeutic services like behaviour therapy, home-based training program, remedial training and parent counselling program. The details regarding the nature and type of therapy provided to cases are given in Table 8.

**Table 8:** Psychological Assessment and Rehabilitation.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Particulars** | **Total No.**  **of Cases** | **Total No. of**  **Sessions** |
|  | Behavior therapy | 617 | 979 |
|  | Home based training program for MR/SLD | 405 | 1293 |
|  | Remedial training for SLD cases | 51 | 394 |
|  | Parent counseling program | 3075 | 3075 |
|  | Neuropsychological Assessment | 38 | 79 |
|  | Neuropsychological rehabilitation | 44 | 315 |
|  | Home based rehabilitation program | 6 | 17 |

**Otorhinolaryngological Assessment and Rehabilitation :** The clinical unit of the ENT department examines and treats ENT diseases related to communication disorders. The unit rendered services to 15560 new and 16063 repeat cases during the year of report. In addition to the services in institute, the ENT department also extended the services to K.R Hospital, Mysore where 6069 new and 6681 old cases were examined. The unit conducted 16,754 microscopic examinations, 279 endoscopic examinations and 31 vertigo evaluations.

**II. Specialized Clinical Services**

In addition to the general clinical services, the institute also delivers a number of specialised clinical services through the credentialed professionals working in the Departments of Audiology, Speech - Language Pathology, Speech - Language Sciences and Special Education.

**Listening Training Unit :**Listening training was provided for the clients who use hearing devices such as hearing aids, cochlear implants and for those with tinnitus and hyperacusis, in the Listening Training Unit.

In the report year, totally 2261 clients underwent listening training comprising of 14493 sessions.Training sessions were handled by student clinicians under the supervision of experienced department staff. The detailed statistics on Listening Training activities are given in Table 9.

Table 9: Details of listening training.

|  |  |
| --- | --- |
| Total no. of clients seen | 2261 |
| Total no. of sessions | 14493 |
| No. of clients for whom demonstration therapy given | 145 |
| No. of new clients | 436 |
| No. of repeat clients | 1827 |
| No. of clients discharged | 68 |
| No. of clients discontinued | 105 |
| Parent counselling session (Individual) | 917 |
| No. of clients given training in Hindi | 183 |
| No. of clients with CI | 138 |
| No. of sessions for clients with CI | 906 |
| No. of sessions for tinnitus / hypercusis | 155 |

**Professional Voice Care Unit :** Forty two M.Sc Speech - Language Pathology students, and 42 interns underwent training for a total duration of 2447 hours, last year at the Professional Voice Care Unit. In addition, five clients were evaluated and one was given therapy in the unit.

**Augmentative and Alternative Communication Unit** :This is to support, enhance and provide alternative methods of communication for individuals who are non-verbal. The unit evaluated 18 new and 236 therapy cases. The total number of therapy sessions conducted was 1392. In addition to these, there were 3 home training cases and one D.T case.

**Autism Spectrum Disorder Unit :**This unit provides assessment, treatment and consultation services for clients diagnosed to have Autism Spectrum Disorders. 234 new cases were evaluated at the unit last year. In addition to this, 36 D.T cases and 643 therapy cases consisting of 3605 sessions were conducted.The details are given in Table –

Table . Activities of ASD Unit.

|  |  |
| --- | --- |
| Category | Number |
| Cases evaluated | 234 |
| Assessment sessions | 236 |
| Therapy cases | 643 |
| Therapy sessions | 3605 |
| D.T. cases | 36 |
| Cases discharged | 19 |
| Cases discontinued | 01 |

**Structural Craniofacial Anomalies Unit(U-SOFA):** U-SOFA is a multi-disciplinary clinic committed to provide comprehensive diagnostic and rehabilitative services to clients with deformalities in the growth of head and facial bones. Totally 256 clients were evaluated at the clinic by the experts in orthodontics, prosthodontics and plastic surgery.Among them 51 were recommended for surgery and 77 for speech therapy. The detailed activities of the unit are given in table 11.

Table 11. U-SOFA) Clinical activities.

|  |  |  |
| --- | --- | --- |
| Diagnostics | | |
| Plastic surgeon | P  129 | A  22 |
| Prosthodontist | P  28 | A  9 |
| Orthodontist | P  59 | A  9 |
| Rehabilitation Recommended | | |
| Orthodontic treatment | P  11 | A  3 |
| Surgery | P  48 | A  3 |
| Speech therapy | P  71 | A  6 |
| Prosthesis | P  2 | A  2 |
| Details of rehabilitation |  |  |
| Session for preparation of prosthesis | P  24 | A  7 |
| No. of speech prosthesis prepared | P  4 | A  2 |
| Speech and Language Therapy | P  125 | A  5 |
| Demonstration therapy | P  20 | A  0 |
| Demonstration therapy  sessions | P  123 | A  0 |
| Speech and Language therapy sessions | P  633 | A  0 |
| Manpower development | | |
| Undergraduate students trained | 70 | |
| Internee trained | 44 | |
| Postgraduate students trained | 68 | |

**P Paediatric A Adult**

**Fluency Unit :** This is a newly launched service in the department of clinical services. The unit caters to the needs of the persons with stuttering and other fluency disorders. Last year it provided clinical service to 571 persons with fluency disorders in 3621 sessions. The unit also enables the professionals to conduct research on neuroanatomical, neurophysiological and genetic aspects of fluency disorders.

**Vertigo Unit :**This is a new specialized service started by the Department of ENT. Vertigo refers to the symptoms of giddiness or imbalance. The clinic offers a comprehensive care in evaluation and management of patients with Vertigo. A multidisciplinary team comprising of ENT surgeon, neurologist and audiologist provide the care. Facilities available in the clinic include microscopic examination of ear, electro nystagmography, vestibulo spinal tests, neurological evaluation, audiological tests and Vestibular Evoked Myogenic Potential (VEMP) test. Totally 31 patients were evaluated in the clinic last year for both peripheral and central vertigo.

**Pre-school :**Educational-cum-clinical services are being provided to children with communication disorders belonging to various age groups at the Pre-School. The major programs conducted at the school are (a) Pre-school training for children with communication disorders (b) parent Empowerment Programme for parents of children 2½ years and above awaiting pre-school admission. During the year under report, 223 children with communication disorders underwent pre-school training consisting of 25141 sessions. Moreover, 281 children with multiple disorders were grouped according to their disorders and group-wise training was provided. Parent empowerment program was attended by 509 clients. Totally 832 sessions were conducted for the program. The detailed statistics of educational-cum-clinical services provided to the children with communication disorders, are in Table 10.

**Table 10 :** educational-cum-clinical services to the children with C.D

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Nature of Service** | **No. of** | | **No. of Sessions** |
| Groups | Clients |
| 1. **Services to children below 2 ½ years of age** | | | | |
| 1. | Parent Infant Programme – | --- | 35 | 131 |
| 1. **Services to Preschool-aged (2 ½ years to 6 years) children** | | | | |
| 2. | *Preschool Parent*  *Empowerment Programme* – | Kannada Flower & Colour (MR & Autism) | 120 | 182 |
| Kannada Fruit (HL) | 128 | 187 |
| Malayalam Flower & Colour (MR & Autism) | 115 | 122 |
| Malayalam Fruit (HL) | 96 | 123 |
| English HL & MR | 26 | 109 |
| Hindi HL & MR | 24 | 109 |
|  | **TOTAL** | | **509** | **832** |
| 3. | *Preschool Training for Children with Communication Disorders* | Colour (Autism) - 05 | 28 | 2869 |
| Flower (MR) - 15 | 76 | 8222 |
| Fruit (HL) - 22 | 119 | 14050 |
| TOTAL - 43 | 223 | 25141 |
| 4. | *Children with Multiple Special Needs* | HL with Autism | 38 | --- |
| HL with CP | 16 |
| HL with MR | 29 |
| MR with Autism | 88 |
| MR with CP | 109 |
| MR with VI | 01 |
| 1. **Services to school-aged children** | | | | |
| 5. | *Placement Guidance Evaluation* | --- | 08 | 12 |
| 6. | *Speech Language and Listening Therapy* | Speech Language Therapy | 900 | 2043 |
| Listening Therapy | 406 | 554 |
| 7. | *Individualised Education Plan / Curricular Support Services*  Curricular Support Services (CSS) | Kannada | 104 | 847 |
| Malayalam | 16 |
| Hindi | 20 |
| English | 24 |
| Telugu | 15 |
| Individualized Education Plan (IEP) | --- | 19 | 73 |
| 8. | *Counselling & Guidance* | Guidance for home training | 13 | 42 |
| All Services | 33 | 105 |
| 9. | Co-Curricular Sessions | All Services | --- | 200 |

**Medical Specialty Services :**The institute facilitates the services of various allied medical specialities to the needy patients with communication disorders who register in the department of clinical services. The patients can avail the consulting services from Paediatrician, Neurologist, Plastic surgeon, Prosthodontist, Orthodontist, Phonosurgeon, Physiotherapist and Occupational therapist.

1162 patients underwent occupational therapy in 7344 sessions and 1148 patients underwent physiotherapy in 9005 sessions. In addition to these, 539, 348, 149, 71, 67 and 63 patients consulted neurologist, Paediatrician, Plastic surgeon, Prosthodontist, Phonosurgeon and Orthodontist, respectively.Thus altogether 3547 patients availed the medical speciality services at the institute.

**III. Clinical Outreach Services**

The institute conducts outreach services with the objective of providing diagnostic and therapeutic services to patients in remote areas, suffering from communication disorders and making the public aware of the measures to be taken to prevent communication disorders. These services supplement and support the care people receive within their local healthcare system. The outreach services are carried out mainly through the Department of Prevention of Communication Disorders (POCD) and Centre for Rehabilitation and Education through Distance Mode (CREDM).

**Department of Prevention of Communication Disorders (POCD)** conducts screening programs for speech and hearing disorders in different settings in various localities and provide diagnostic and therapeutic services. These include (i) screening new born babies and children for communication disorders in hospitals, (ii) clinical services to the rural people at the 4 outreach Service centres of the department, (iii) hearing screening for industrial workers, and (iv) screening programs at camps.

Under the infant Screening Program of the department, 12523 babies were screened for hearing in 12 hospitals,3 immunization centres and 2 primary health centres in and around Mysore and 1485 among them were referred to AIISH for follow-up. Communication disorder related diagnostic and therapeutic services were provided for persons in rural areas around the outreach service Centres. Totally 4461 clients ranging from infants to adults underwent screening in the 4 outreach service centres. Among them, 649 individuals were diagnosed to be having otolaryngological, audiological and speech and language related disorders. Hearing aids were issued to 285 persons with hearing loss and ear mould impressions of 218 persons were taken.Also,129 persons were recommended for speech and language therapy.

Under the hearing screening for the industrial workers program of the department, hearing evaluations were conducted for 132 employees working in Karnataka Silk Industries Company, during the year under report. 90% of the workers screened were found to have hearing loss and the employees were counselled regarding the need to use ear protective devices.

13 camps were conducted by the Institute at various places within and around Karnataka with the objective of screening persons for speech, language and hearing disorders. Totally 2846 persons were evaluated in these camps and 600 persons among them were recommended to the institute for follow-up. The details of camps conducted in various places are given.

**Table 12:** Details of clients screened in various camps in the report year

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Month | Place where camp was held | Date | Sponsoring Organization | Total Number of Clients screened/  evaluated | Total Number of Clients referred to AIISH for follow up |
| Apr 2010 | Tarikere, Chikkamagalur district | 23/4/2010 | Rotary Club, Tarikere | 351 | 88 |
| July 2010 | Nanjangud, Mysore Dist. | 11/7/2010 | Mysore District Surgeon Association, Mysore. | 57 | 25 |
| Sulthan Battery | 29/7/2010 | SSA | 277 | 73 |
| Panamaram | 30/7/2010 | SSA | 429 | 171 |
| Sept 2010 | T.Narsipura, Mysore taluk. | 29/9/2010 | Chaitanya Charitable Trust | 96 | 30 |
| Dec. 2010 | Piriyapatna,  Mysore | 7/12/2010 | Chaitanya Charitable Trust, Mysore | 67 | 8 |
| Meke Daatu,  Kanakapura | 12/12/2010 | SGS Hospital,Sri Ganapathy Sachidananda Ashram, Mysore | 94 | 16 |
| Hebbal, Mysore | 16/12/2010 | Lions Club, Mysore | 90 | 13 |
| Feb 2011 | T.Narasipura,  Mysore | 20/2/2011 | Rotary Club,  T. Narasipur | 84 | 5 |
| Hosapet,  Bellary | 23/2/2011 to 25/2/2011 | Rotary Club, Hospet | 244 | 7 |
| Mar 2011 | H.D Kote, Mysore | 02/02/2011 & 03/03/2011 | NSS, AIISH | 582 | 136 |
| Tarikere, Chckmagalur district | 17/03/2011 | Rotary Club, Tarikere | 316 | 19 |
| Devanuru,  Chamarajanagar district | 27/03/2011 | Sri Gurumalleswara Seva Samiti, Devanuru | 159 | 9 |
| **Total** | | | | **2846** | **600** |

The cumulative statistics of various activities of POCD are given in table ….

|  |  |  |
| --- | --- | --- |
| Activity | Clients Evaluated | Clients  Referred |
| Infant Screening | 12523 | 1485 |
| Industrial  Screening | 132 | ----- |
| Outreach Centres  a)Hearing Aid Issued  b)Ear Moulds  c)Sp.Hg.therapy | 285  218  ---- | ----  ---  129 |
| Camps | 2846 | 600 |
|  |  |  |
|  |  |  |
|  |  |  |

**Centre for Rehabilitation and Education through Distance Mode (CREDM)** works with the motto of ‘reaching the unreached’. The centre offers many innovative clinical outreach services to persons with communication disorders at distant places through tele-diagnostic and rehabilitation services and e-discussion forums. Tele-intervention and rehabilitations were done on a daily basis throughout the year. Constant home training was given and follow-ups were done for the needy cases. 18 and 202 clients were offered tele-diagnosis and tele-services, respectively. The details of tele-diagnosis and intervention delivered last year are in Figure 1 and 2.

Figure 1 Tele-Diagnosis

Figure 2 Tele- Intervention

**IV. Clinical Electronic Services**

The clinical electronic services provided under the Department of Electronics include electro- acoustic evaluation, management and issue of hearing aids.

Totally 5438 hearing aids with solar battery chargers were distributed at the institute (4624), camps (692), and clinical outreach centres (122), after electro-acoustic evaluation and testing. These activities were carried out under the ADIP scheme of Ministry of Social Justice and Empowerment, Government of India. In addition to this, 996 hearing aids were distributed at concessional rate under AIISH hearing aid dispensing scheme. The department also repaired 403 body level and 116 BTE hearing aids and freely serviced 446 BTE hearing aids.

**V. Clinical Support Services**

The institute extends a diverse range of support services to patients and their family who approach the institute for services. These include counselling and guidance on various aspects of the disorders, treatment procedures, usage and care of tools like hearing aids, issue of certificates financial aid, tax exception, educational scholarship, railway concession, and school admission to the deserving.

The clinical support services provided by the

institute to the eligible candidates, are

given in Table 13.

**Table 13:** Clinical Support Services

|  |  |  |
| --- | --- | --- |
| Dept.of Cliniac Services | | |
| S.No | Particulars | Total |
| 1 | Transfer certificate | 21 |
| 2 | Case reports | 528 |
| 3 | Attendance certificates | 32 |
| 4 | School admission certificate/  Language exemption certificate | 109 |
| 5 | Correspondence by e-mail/letter/FU | 372 |

|  |  |  |
| --- | --- | --- |
| **Department of Audiology** | | |
| 1 | Financial aid | 893 |
| 2 | Admission to school for the deaf | 129 |
| 3 | Physically handicapped | 212 |
| 4 | Tax exemption | 54 |
| 5 | Education scholarship | 107 |
| 6 | At camp | 4 |
| 7 | Others | 120 |

|  |  |  |
| --- | --- | --- |
| **Department of Clinical Psychology** | | |
| 1. | MR Certificates issued for individuals with Mental Retardation | 1287 |
| 2. | Railway concession certificates | 94 |
| 3. | Certificate issued for the individuals with Learning disabilities. | 156 |
| 4. | Psychological Report for special school admissions | 117 |
| 5. | Income Tax Exemption Certificate for parents of M.R | 30 |
| 6. | Medico-legal cases | 3 |
| 7. | Court appearance for rendering expert opinion | 3 |