**CLINICAL CARE**

**Patient Registration**

Totally 16,973 new clients were registered for availing clinical services at the institute during the reporting year. In addition, 30,133 case files were retrieved for repeat/follow up visits for various evaluations. The geographical and gender-wise details of new clients are given in table 1. Majority of them (16309) were from Karnataka, the state in which the institute is located, followed by the neighboring states of Kerala (328), Tamil Nadu (105), and Andhra Pradesh (74). Also, there were clients from Bangladesh, Saudi Arabia, UAE, U.K, and USA. The clients include 10411 males and 6562 females.

**Table 1: Geographical & gender-wise distribution of new clients**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No** | **Locality** | **Male** | **Female** | **Total** |
|  | Andra Pradesh | 52 | 22 | 74 |
|  | Assam | 8 | 3 | 11 |
|  | Bihar | 20 | 5 | 25 |
|  | Delhi | 2 | 2 | 4 |
|  | Goa | 2 | 0 | 2 |
|  | Gujarat | 3 | 0 | 3 |
|  | Hariyana | 3 | 1 | 4 |
|  | Himachal Pradesh | 2 | 1 | 3 |
|  | Jarkhand | 5 | 0 | 5 |
|  | Karnataka | 9948 | 6361 | 16309 |
|  | Kashmir | 1 | 0 | 1 |
|  | Kerala | 232 | 96 | 328 |
|  | Madhya Pradesh | 2 | 3 | 5 |
|  | Maharastra | 10 | 10 | 20 |
|  | Manipur | 1 | 0 | 1 |
|  | Mizoram | 0 | 1 | 1 |
|  | Orissa | 7 | 4 | 11 |
|  | Punjab | 0 | 1 | 1 |
|  | Rajasthan | 8 | 1 | 9 |
|  | Tamil Nadu | 69 | 36 | 105 |
|  | Telangana | 7 | 4 | 11 |
|  | Union Territories | 2 | 2 | 4 |
|  | Uttar Pradesh | 11 | 4 | 15 |
|  | Uttaranchal | 1 | 1 | 2 |
|  | West Bengal | 10 | 4 | 14 |
|  | Overseas | 5 | 0 | 5 |
| **Total** | | **10411** | **6562** | **16973** |

**Speech and Language Assessment and Rehabilitation**

Totally, 5040 clients underwent speech and language evaluation which include 3847 new and 1193 review cases. Assessment of 80 new and 168 review cases was carried out in virtual mode and 3767 new and 1025 review cases in physical mode. Of the new cases, 3736 persons were identified with various kinds of speech and language disorders and 111 were found to have normal speech. Whereas, of the 1200 review cases, 1185 persons were with various disorders, and the remaining 15 were normal. Totally, 4797 cases were evaluated physically and 248 virtually. The details are given in tables 2 to 3 and figures 1 to 2.

**Table 2 : Assessment of Speech-Language Disorders** (Physical mode)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Disorders** | **Language Disorders** | | | | **Fluency Disorders** | | | | **Voice Disorders** | | | | **Articulation Disorders** | | | | **Multiple Disorders** | | | | **Normal** | | | **Total** |
| Months | C | A | G | C | | A | G | C | | A | G | C | | A | G | C | | A | G | C | | A | G |  |
| April 2021 | 127 | 24 | 2 | 12 | | 6 | 0 | 2 | | 7 | 4 | 9 | | 5 | 1 | 2 | | 0 | 0 | 5 | | 1 | 1 | 208 |
| May 2021 | 4 | 1 | 1 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 6 |
| June 2021 | 33 | 4 | 0 | 5 | | 2 | 0 | 0 | | 1 | 2 | 1 | | 4 | 1 | 2 | | 1 | 0 | 4 | | 1 | 0 | 61 |
| July 2021 | 204 | 22 | 4 | 23 | | 9 | 0 | 3 | | 13 | 3 | 12 | | 5 | 1 | 10 | | 3 | 0 | 12 | | 3 | 0 | 327 |
| Aug 2021 | 229 | 38 | 6 | 24 | | 8 | 0 | 5 | | 9 | 9 | 14 | | 5 | 4 | 4 | | 1 | 0 | 4 | | 3 | 3 | 366 |
| Sept 2021 | 225 | 24 | 8 | 35 | | 11 | 0 | 3 | | 14 | 5 | 29 | | 8 | 2 | 7 | | 1 | 0 | 2 | | 2 | 2 | 378 |
| Oct 2021 | 234 | 31 | 16 | 29 | | 12 | 1 | 6 | | 10 | 6 | 18 | | 6 | 1 | 2 | | 0 | 0 | 5 | | 7 | 1 | 385 |
| Nov 2021 | 210 | 23 | 5 | 18 | | 7 | 0 | 0 | | 9 | 6 | 27 | | 5 | 2 | 24 | | 1 | 1 | 2 | | 6 | 0 | 346 |
| Dec 2021 | 319 | 85 | 14 | 23 | | 9 | 0 | 3 | | 14 | 6 | 18 | | 5 | 0 | 15 | | 3 | 1 | 4 | | 7 | 0 | 526 |
| Jan 2022 | 193 | 43 | 3 | 8 | | 12 | 0 | 1 | | 18 | 6 | 9 | | 4 | 1 | 26 | | 5 | 1 | 0 | | 3 | 1 | 334 |
| Feb 2022 | 214 | 27 | 10 | 24 | | 8 | 0 | 1 | | 11 | 7 | 14 | | 5 | 1 | 32 | | 4 | 1 | 7 | | 6 | 1 | 373 |
| March 2022 | 297 | 49 | 0 | 9 | | 9 | 0 | 2 | | 12 | 8 | 11 | | 4 | 0 | 30 | | 9 | 0 | 7 | | 8 | 2 | 457 |
| **Total** | 2289 | 371 | 69 | 210 | | 93 | 1 | 26 | | 118 | 62 | 162 | | 56 | 14 | 154 | | 28 | 4 | 52 | | 47 | 11 | **3767 (N) + 1030 (R)** |
| Disorder Wise | **2729 (N)+**  **844 (R)** | | | | **304 (N)+**  **32 (R)** | | | | **206 (N)+**  **22 (R)** | | | | **232 (N) +**  **48 (R)** | | | | **186 (N) +69(R)** | | | | **110 (N)+15(R)** | | |  |
| **Over All** | **4797** | | | | | | | | | | | | | | | | | | | | | | | |

*C- Child, A-Adult, G-Geriatric, N-New cases, R-Review cases*

Figure: 1 – Assessment of Speech-Language Disorders (*New cases, disorder-wise – Physical mode*)

**Table 3: Assessment of Speech-Language Disorders** (Virtual mode)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Disorders** | **Language Disorders** | | | **Fluency Disorders** | | | **Voice Disorders** | | | **Articulation Disorders** | | | **Multiple Disorders** | | | **Normal** | | | **Total** |
| Months | C | A | G | C | A | G | C | A | G | C | A | G | C | A | G | C | A | G |  |
| April 2021 | 8 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| May 2021 | 19 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 29 |
| June 2021 | 18 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| July 2021 | 10 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 16 |
| Aug 2021 to March 2022 | - | | | | | | | | | | | | | | | | | | |
| **Total** | 55 | 3 | 1 | 7 | 4 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | **80 (N) + 168 (R)** |
| Disorder Wise | **59 (N)+119 (R)** | | | **11 (N)+12 (R)** | | | **1 (N)+2 (R)** | | | **6 (N) + 16 (R)** | | | **2 (N) +**  **19 (R)** | | | **1 (N)+0 (R)** | | |
| **Over All** | **248** | | | | | | | | | | | | | | | | | | |

Figure: 2 – Assessment of Speech-Language Disorders (*New cases, disorder-wise – Virtual mode*)

Clients requiring further management were given various speech/language therapies

depending upon the type and severity of disorder, for daily sessions of 45 minutes duration. In addition to the normal physical mode, the therapy sessions were conducted in virtual mode. A total of 2500 persons with speech/ language disorders underwent therapy in physical mode in 12191 sessions and 3413 persons underwent therapy in virtual mode in 16475 sessions during the reporting year. The details of disorder-wise therapy carried out are given in tables 4 to 5and figures 3 to 4*.*

**Table 4 : Speech-Language Therapy** (Physical mode)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Disorders** | **Language Disorders** | | | **Voice Disorders** | | | **Articulation Disorders** | | | **Multiple Disorders** | | | **MSD** | | | **LD** | | | **Total** |
| Months | C | A | G | C | A | G | C | A | G | C | A | G | C | A | G | C | A | G |  |
| April 2021 | 213 | 4 | 0 | 2 | 11 | 1 | 17 | 2 | 1 | 0 | 0 | 0 | 50 | 0 | 0 | 8 | 1 | 0 | **310** |
| May 2021 | Therapy sessions were carried out in Virtual mode | | | | | | | | | | | | | | | | | | |
| June 2021 |
| July 2021 |
| Aug 2021 |
| Sept 2021 |
| Oct 2021 | 215 | 1 | 1 | 3 | 8 | 2 | 13 | 2 | 0 | 54 | 0 | 0 | 4 | 0 | 0 | 7 | 0 | 0 | **310** |
| Nov 2021 | 322 | 5 | 2 | 2 | 10 | 3 | 27 | 5 | 1 | 57 | 0 | 0 | 12 | 0 | 0 | 5 | 0 | 0 | **451** |
| Dec 2021 | 419 | 8 | 4 | 3 | 16 | 3 | 33 | 6 | 3 | 74 | 0 | 0 | 9 | 0 | 0 | 7 | 0 | 0 | **585** |
| Jan 2022 | 420 | 10 | 4 | 2 | 14 | 0 | 29 | 7 | 4 | 74 | 0 | 0 | 14 | 0 | 0 | 7 | 0 | 0 | **585** |
| Feb 2022 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | **7** |
| Mar 2022 | 178 | 11 | 0 | 1 | 6 | 5 | 13 | 4 | 2 | 5 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | **252** |
| **Total** | **1772** | **39** | **11** | **13** | **65** | **14** | **133** | **26** | **11** | **264** | **0** | **0** | **117** | **0** | **0** | **34** | **1** | **0** | **2500** |
| Disorder Wise | **1822** | | | **92** | | | **170** | | | **264** | | | **117** | | | **35** | | |  |
| **Total no. of Cases** | **2500** | | | | | | | | | | | | | | | | | | |
| **Total no. of Sessions** | **12191** | | | | | | | | | | | | | | | | | | |

Figure 3: Overall disorder-wise Speech-Language Therapy (*Physical mode*)

**Table 5: Speech-Language Therapy** (Virtual mode)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Disorders** | **Language Disorders** | | | **Voice Disorders** | | | **Articulation Disorders** | | | **Multiple Disorders** | | | **MSD** | | | **LD** | | | **Total** |
| Months | C | A | G | C | A | G | C | A | G | C | A | G | C | A | G | C | A | G |
| April 2021 | 99 | 4 | 0 | 0 | 4 | 1 | 11 | 2 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | **134** |
| May 2021 | 199 | 8 | 3 | 2 | 5 | 3 | 30 | 8 | 4 | 0 | 0 | 0 | 57 | 0 | 0 | 10 | 0 | 0 | **329** |
| June 2021 | 284 | 9 | 4 | 0 | 6 | 3 | 30 | 5 | 2 | 0 | 0 | 0 | 57 | 0 | 0 | 10 | 1 | 0 | **411** |
| July 2021 | 310 | 11 | 5 | 3 | 6 | 3 | 32 | 7 | 2 | 46 | 0 | 0 | 12 | 0 | 0 | 9 | 2 | 0 | **448** |
| Aug 2021 | 296 | 10 | 4 | 2 | 7 | 3 | 31 | 7 | 3 | 43 | 0 | 0 | 12 | 0 | 0 | 9 | 2 | 0 | **429** |
| Sept 2021 | 155 | 3 | 3 | 1 | 8 | 2 | 18 | 5 | 0 | 27 | 0 | 0 | 7 | 0 | 0 | 3 | 0 | 0 | **232** |
| Oct 2021 | 98 | 4 | 3 | 1 | 3 | 2 | 8 | 5 | 0 | 17 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | **145** |
| Nov 2021 | 1 | 3 | 3 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **10** |
| Dec 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **0** |
| Jan 2022 | 376 | 8 | 4 | 1 | 10 | 2 | 27 | 5 | 4 | 67 | 0 | 0 | 9 | 0 | 0 | 4 | 0 | 0 | **517** |
| Feb 2022 | 416 | 10 | 4 | 1 | 13 | 2 | 27 | 7 | 4 | 12 | 0 | 0 | 70 | 0 | 0 | 4 | 0 | 0 | **570** |
| Mar 2022 | 137 | 7 | 0 | 0 | 8 | 1 | 8 | 3 | 2 | 3 | 0 | 0 | 18 | 0 | 0 | 1 | 0 | 0 | **188** |
| **Total** | **2371** | **77** | **33** | **11** | **71** | **22** | **222** | **56** | **21** | **215** | **0** | **0** | **258** | **0** | **0** | **51** | **5** | **0** | **3413** |
| **Disorder wise** | **2481** | | | **104** | | | **299** | | | **215** | | | **258** | | | **56** | | |  |
| **Total no. of Cases** | **3413** | | | | | | | | | | | | | | | | | | |
| **Total no. of Sessions** | **16475** | | | | | | | | | | | | | | | | | | |

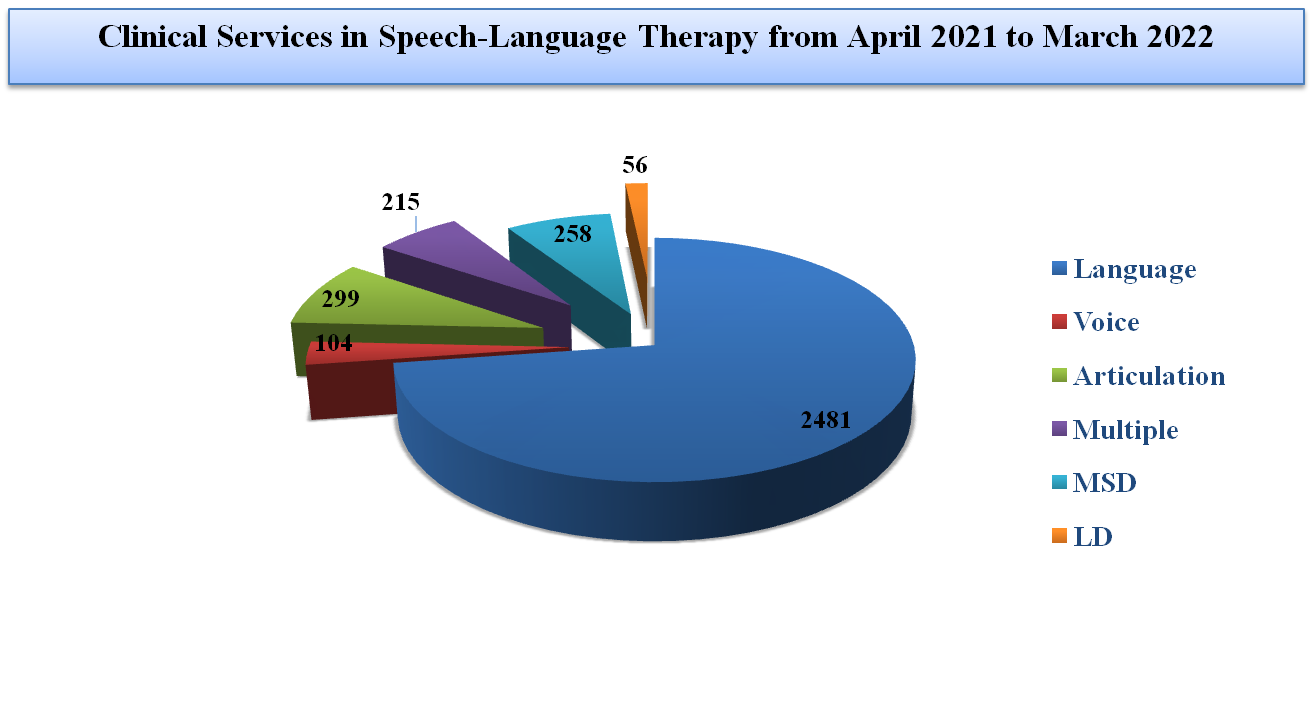


Figure 4: Overall disorder-wise Speech-Language Therapy (*Virtual mode*)

Speech and language assessment and therapeutic services were also provided at the DHLS centres of the Institute located in different parts of the country, the details of which are given in table 6.

**Table 6 : Speech-Language clinical services at the DHLS Centres**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Assessment** | | | | | | **Therapy** | | | | |
| **Centers** | **Language** | **Voice** | **Phonology** | **Fluency** | **MSD/**  **Dysphasia** | **Language** | **Voice** | **Phonology** | **Fluency** | **MSD/**  **Dysphasia** |
| Mysore | 117 | 04 | 06 | 07 | 02 | 151 | - | - | - | - |
| Ranchi | 25 | 03 | 11 | 13 | 01 | 29 | 14 | 13 | 30 | - |
| New Delhi | 160 | 180 | 80 | 50 | 29 | 320 | 220 | 190 | 40 | - |
| Bhagalpur | 30 | 02 | 05 | 07 | - | 80 | 19 | 28 | 35 | - |
| Mumbai | 388 | 03 | 03 | 06 | 15 | 463 | 03 | 05 | 13 | 02 |
| Ajmer | 299 | 110 | 133 | 121 | 32 | 119 | 115 | 49 | 70 | 13 |

**Audiological Assessment and Rehabilitation**

Hearing evaluations were carried out for the registered clients suffering from hearing problems. A total of 12841 persons were seen in the Audiology outpatient department and hearing evaluation was carried out for 10257 persons in the Hearing Evaluation section. Of the 10257 clients evaluated, 4094 were female and 6163 male. The details of the audiological evaluation are given in table 7.

**Table 7: Hearing Evaluation**

|  |  |  |
| --- | --- | --- |
| **Sl.** | **Category** | **Total** |
| 1 | Clients seen in Outpatient department | 12841 |
| 2 | Clients seen in camp | 746 |
| 3 | Hearing Evaluation | 10257 |
| 4 | Normal hearing | 3302 |
| 5 | Minimal | 1939 |
| 6 | Mild | 2340 |
| 7 | Moderate | 3126 |
| 8 | Moderately severe | 2712 |
| 9 | Severe | 2171 |
| 10 | Profound | 2342 |
| 11 | Minimal to mild | 17 |
| 12 | Mild to moderate | 212 |
| 13 | Moderate to severe | 183 |
| 14 | Moderately severe to severe | 235 |
| 15 | Severe to profound | 866 |
| 16 | Moderate to severe | 312 |
| 17 | Sloping | 690 |
| 18 | Ears tested having   * Conductive hearing * Mixed hearing loss * Sensorineural hearing loss | 2346  3270  5748 |
| 19 | Clients with unilateral hearing loss | 1000 |
| 20 | Clients with bilateral hearing loss | 8074 |
| 21 | Ears with auditory dys-synchrony | 83 |
| 22 | Clients with auditory processing disorder | 7 |
| 23 | Clients with functional hearing loss | 53 |
| 24 | Clients - tinnitus evaluation | 191 |
| 25 | Clients for Pure Tone Audiometry | 8710 |
| 26 | Clients for Speech Audiometry | 5393 |
| 27 | Clients for Immittance evaluation | 9833 |
| 28 | Clients for Otoacoustic Element | 3236 |
| 29 | Clients for Auditory Brainstem Response | 2007 |
| 30 | Clients for Vestibular Evoked Myogenic Potential | 231 |
| 31 | Clients for Video Head Impulse Tests | 2 |
| 32 | Clients for Behavioral Observation Audiometry | 353 |
| 33 | Clients for Visual Reinforcement Audiometry | 89 |
| 34 | Clients for LLR | 7 |
| 35 | Behavioral Vestibular Assessment | 7 |

Hearing aid trial and prescription were carried out for clients in need for amplification and/or assistive listening devices. Clients evaluated of hearing aids were 5557 and 2935 hearing aids were prescribed at AIISH. Of the 5557 clients evaluated, 2054 were female and 3503 male. The details are given in table 8 and figure 5.

**Table 8: Hearing Aid Trial**

|  |  |
| --- | --- |
| **Hearing Aid Trial** | **Total** |
| No. of clients seen for Hearing Aid Trial | 5557 |
| Hearing aids prescribed at AIISH | 2935 |
| Clients seen in camp | 170 |
| * Body level hearing aids | 4 |
| * Analogue BTE hearing aids | 1969 |
| * Digital BTE hearing aids | 2994 |
| * Digital ITC hearing aids | 23 |
| * Digital CIC hearing aids | 30 |
| * Digital RIC hearing aids | 487 |
| * Testing for CI candidacy | 107 |
| No. of clients recommended | |
| Auditory training | 716 |
| Speech reading | 228 |
| Unaided/aided audiograms | 148 |
| Aided audiogram for Cochlear Implant | 26 |
| Behavioural Observation Audiometry | 37 |
| Aided Visual reinforcement Audiometry | 41 |
| Conditioning | 398 |
| Programming of digital Hearing Aid | 2521 |
| Reprogramming of Hearing Aid | 1198 |
| Retrial with Custom Earmold | 71 |
| Recommended for Cochlear Implant candidacy | 111 |

Figure 5: Hearing Aid Trial

The Earmold lab served 5165 clients for making custom earmolds. These include 814 new and 4333 old clients at AIISH, and 18 in camps. The detailed earmold statistics are given in table 9. The Institute generated an income of Rs. 10,01,931/- through earmold making during the period.

**Table 9: Earmold Statistics**

|  |  |
| --- | --- |
| **Category** | **Total** |
| New clients | 814 |
| Old clients | 4333 |
| At Camp | 18 |
| Ear impressions taken | |
| Free-of-cost | 3753 |
| 100% payment | 3907 |
| CPL impressions | 2 |
| Ear Molds completed | 4234 |
| No. Molds Lacquered | 1186 |
| No. of sound tube issued | 1420 |
| Hard regular molds | 104 |
| Hard shell mold made | 21 |
| Hard canal molds | 50 |
| Soft canal mold | 685 |
| Instant molds | 66 |
| Swimmer plug (soft) | 19 |
| Swimmer plug (hard) | 1049 |
| No. of ear blocked | 75 |
| Earmolds with acoustic modifications | 2740 |
| No. of students posted | 206 |

Audiological services were also provided at the DHLS centres of the Institute located in different parts of the country, the details of which are given in table 10.

**Table 10: Audiological services at the DHLS centres**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Centers** | **OPD**  **(Case history)** | **Evaluation** | **Earmolds** | **Hearing aid trial (HAT)** | **Listening** |
| Mysore | - | 303 | 501 | 168 | - |
| Ranchi | 1468 | 1468 | - | - | - |
| New Delhi | 310 | 310 | - | 28 | 83 |
| Bhagalpur | 720 | 720 | - | - | - |
| Mumbai | 91 | 91 | - | - | - |
| Ajmer | 1045 | 1045 | - | - | 42 |

**Referred Evaluation-1: Psychological Assessment and Rehabilitation**

Psychological assessment was carried out for the referred cases registered at the Department of Clinical Psychology. This includes routine psycho-diagnostic assessment for screening and identification, detailed psychological assessment (including specialized assessment such as assessment for learning disability, neuro-psychological assessment, assessment for disability certification, behavioral assessment and assessment for skill training), and psychological intervention (including behavior modification programs, home based skill training programs, cognitive-behaviour and group intervention programs for caregivers). Routine psycho-diagnostic assessment was carried out for 3842 new and 1249 review cases at the Department during the reporting year. The detailed is given in table 11.

**Table 11: Routine Psycho-Diagnostic Assessment**

|  |  |  |
| --- | --- | --- |
| Classification of disorders according to the criteria included in Chapter V (F) of ICD-10 | | |
| F 70# | Mental retardation | 1,067 |
| F 80.0 | Specific speech articulation disorder | 221 |
| F 80.1 | **Expressive language disorder** | 411 |
| F 80.2 | **Receptive language disorder** | 950 |
| F 88# | **Other disorders of psychological development** | 218 |
| F81# | **Specific developmental disorders of scholastic skills** | 275 |
| F 84# | **Pervasive developmental disorders** | 46 |
| F 98.5 | **Stuttering (stammering)** | 347 |
| F 44.4 | **Dissociative motor disorders** | 33 |
| F00-F99 | Other disorders included in Chapter V (F) of ICD-10 | 147 |
| *The code # refers to "condensed" codes (Ref ICD-IO PC)*  Classification according to the criteria included in Chapter XVIII (R) of ICD 10 | | |
| R 47.0 | Dysphasia and aphasia | 69 |
| R 41.83 | Borderline Intellectual Functioning | 522 |
| Avg. Intelligence with disorders classified elsewhere | | 785 |
| **TOTAL** | | **5091** |

Psychological assessment carried out include intelligence / developmental assessment (192 cases in 543 sessions), psycho-educational assessment (25 cases in 58 sessions), neuropsychological assessment (one case in one session), behavioural assessment (eight cases in eight sessions), forensic assessment (16 cases in 41 sessions) and others (13 cases in 14 sessions). In addition, Behaviour Modification (24 cases in 25 sessions), Cognitive behaviour therapy (one case in four sessions) and psychological intervention was done for 45 clients in 92 sessions.

**Referred Evaluation-2: Otolaryngological Assessment and Rehabilitation**

The Otorhino-laryngological assessment and rehabilitation for persons with communication disorders were carried out in the Department of Otolaryngology. In addition to the clinical services provided at the Institute, the Department staffs rendered diagnostic, therapeutic and surgical services at K.R. Hospital, Mysore Medical College, Mysuru. The details of the Otolaryngological evaluation are given in table 12.

**Table 12: Otolaryngological Evaluation**

|  |  |  |
| --- | --- | --- |
| **Sl.** | **Category** | **Total** |
| 1 | Clients seen at AIISH | 32095 |
| 2 | New cases | 14980 |
| 3 | Review cases | 17115 |
| 4 | Clients seen in K.R. Hospital | 6076 |
| 5 | No. of Major Operations at K.R. Hospitals | 51 |
| 6 | No. of Minor Operations at K.R. Hospitals | 333 |
| 7 | Microscopic | 6774 |
| 8 | Stroboscopic/Endoscopic | 293 |
| 9 | Oto Endoscopic | 81 |
| 10 | Diagnostic Naso endoscopy | 37 |

**Specialized Clinical Services**

The institute provided a variety of specialized clinical services for the persons with communication disorders in both physical and virtual mode during the reporting year. The details are provided in tables 13, 14 and 15.

**Table 13: Evaluation at the Special Clinics**

|  |  |
| --- | --- |
| **Unit** | **Total** |
| Augmentative and Alternative Communication (AAC) | 156 |
| Autism Spectrum Disorders (ASD) | 239 |
| Clinic for Adult and Elderly Persons with Language Disorders (CAEPLD) | 60 |
| Dysphagia Unit | 12 |
| Fluency | 56 |
| Implantable Hearing Devices Unit   * No. of switch on - 19 * Mapping for CI - 181 * Trouble shooting CI devices - 95 * Counselling for CI clients - 279 | 574 |
| Learning Disability (LD) | 37 |
| Listening Training Unit (LTU) | 223 |
| Motor Speech Disorders (MSD) | 50 |
| Phonology | 30 |
| Structure Orofacial Anomalies (U-SOFA) | 122 |
| Vertigo Clinic | 73 |
| Voice | 59 |
| **Total** | **1691** |

**Table 14: Rehabilitation at the special clinics (Virtual mode)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit** | **Child** | **Adult** | **Total Sessions** |
| AAC | 22 | - | 96 |
| ADHD | 64 | - | 172 |
| ASD | 814 | 1 | 2870 |
| CAEPLD | - | 134 | 744 |
| Fluency | 324 | 132 | 1658 |
| LD | 61 | 5 | 258 |
| LT | 120 | 10 | 2990 |
| MSD | 490 | - | 2219 |
| Phonology | 300 | 29 | 552 |
| U-SOFA | 72 | 2 | 389 |
| Voice | 20 | 154 | 512 |
| **Total** | **2287** | **467** | **12460** |

*ADHD: Attention Deficit Hyperactivity Disorder*

**Table 15: Rehabilitation at the special clinics (Physical mode)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit** | **Child** | **Adult** | **Total Sessions** |
| AAC | 15 | - | 86 |
| ADHD | 30 | - | 228 |
| ASD | 543 | 10 | 3219 |
| CAEPLD | - | 75 | 415 |
| Fluency | 180 | 71 | 1187 |
| Implantable Hearing Devices Unit | 279 | - | 279 |
| ISL | 09 | - | 19 |
| LD | 36 | 1 | 188 |
| LT | 190 | 33 | 11051 |
| MSD | 225 | - | 1832 |
| Phonology | 234 | 24 | 669 |
| U-SOFA | 52 | 2 | 297 |
| Vertigo | - | 436 | 436 |
| Voice | 22 | 120 | 531 |
| **Total** | **1815** | **772** | **20437** |

*ADHD: Attention Deficit Hyperactivity Disorder*

*IHDU: Implantable Hearing Devices Unit*

*ISL : Indian Sign Language*

**Special Educational Services**

The following educational services were provided to the children with special needs at the pre-school, attached to the Department of Special Education during the reporting year.

1. **Special Educational Assessment:** Educational Assessment services were offered for 508 children with communication disorders in 508 sessions to determine readiness for schooling and to suggest an appropriate grade, placement as well as necessary services.
2. **Parent Infant Program (PIP):** PIP was provided to very young children ranging from birth to 2.5 years with the objective of improving physical, cognitive, communication, social and emotional skills as detailed in *figure 6*.

Figure 6: Parent Infant Program

1. **Preschool Parent Empowerment Program (PPEP):** PPEP was provided to caregivers of children ranging from 2.5-3 years before formal admission to preschool with the aim of empowering caregivers to train their children and get adjusted to preschool atmosphere. The details are provided in table 16.

**Table 16: Preschool Parent Empowerment Program**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Apr’21** | **May’21** | **June’21** | **July’21** | **Aug’21** | **Sep’21** | **Oct’21** | **Nov’21** | **Dec’21** | **Jan’22** | **Feb’22** | **Mar’22** | **Total** |
| Clients | 167 | 168 | 168 | 88 | 111 | 134 | 164 | 187 | 162 | 185 | 194 | 241 | **1969** |
| Sessions | 525 | 525 | 440 | 399 | 399 | 380 | 380 | 380 | 897 | 702 | 797 | 858 | **6682** |

1. **Preschool Training & Supplementary Services (PSS):** Preschool service, a preparatory training for children with communication disorders in self-help, cognitive, communication and academic skills necessary for successful schooling, was provided to children in the age range of 3-6 years having hearing impairment, cerebral palsy, and multiple disabilities and to those in the age range of 3-10 years having intellectual disability and autism. The details are given in table 17.

**Table 17: Preschool Training**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Apr’21** | **May’21** | **June’21** | **July’21** | **Aug’21** | **Sep’21** | **Oct’21** | **Nov’21** | **Dec’21** | **Jan’22** | **Feb’22** | **Mar’22** | **Total** |
| Clients | 167 | 161 | 154 | 209 | 202 | 197 | 194 | 138 | 185 | 187 | 182 | 173 | **2149** |
| Sessions | 790 | 603 | 571 | 875 | 827 | 763 | 631 | 763 | 1251 | 957 | 1220 | 1109 | **10360** |

1. **Curricular Support Services (CSS) / Individualized Education Program (IEP)/ Demonstration Education Therapy (DET) and Non formal Education Program (NFE):** The CSS was offered to the children with communication disorders, but had certain difficulties in coping with academics as detailed in *figure 7*. The IEP was offered to 101 clients in 487 sessions, who were either dropped out of school or unable to cope with the regular school curriculum. The details of DET and NFE provided are given in table 18.

**Table 18: Demonstration Education Therapy (DET) and Non formal Education Program (NFE)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Apr’21** | **May’21** | **June’21** | **July’21** | **Aug’21** | **Sep’21** | **Oct’21** | **Nov’21** | **Dec’21** |
| Clients | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 2 |
| Sessions | 6 | 9 | 0 | 0 | 9 | 9 | 9 | 7 | 12 |

Figure 7: Curricular Support Services (CSS)

1. **Speech-Language group therapy**: Group therapy was provided to the children with communication disorders as detailed in figure 8.

Figure 8: Speech-Language Group Therapy

1. **Counselling and guidance**: 116 parents and caregivers of children with communication disorders were counselled in 122 sessions.

**Medical Speciality & Allied Health Services**

The institute facilitated the services of various medical specialists such as pediatrician, neurologist, plastic surgeon, prosthodontist, orthodontist, phono-surgeon and services of allied health professionals such as physiotherapist and occupational therapist, to the needy clients. Totally, 299 clients underwent physiotherapy in physical and 284 in virtual mode. The total physiotherapy sessions were 3429. Also, 452 clients underwent occupational therapy in physical and 355 in virtual mode. The total occupational therapy sessions were 4660. In addition, 135, 13, 110, 107, 34, 299, nine & two clients consulted pediatrician, phonosurgeon, plastic surgeon, orthodontist, dietician, neurologist, orthopedician and oncologist respectively. The details are given in figure 9.

Figure 9: Medical specialty and allied health

**Clinical Support Services**

The institute extended a diverse range of support services to patients and their family. These include the following.

* **Distribution and Repairing of Aids:** Electro-acoustic evaluation, management and repair of hearing aids were carried out under the aegis of Department of Electronics. Totally 1687 hearing aids were distributed after electro-acoustic evaluation and testing by the Hearing Device Dispensing Unit of the Institute. In addition, the unit issued 70234 hearing aid spares such as hearing aid cells, cords, battery doors, ear hooks, body case, wind weather protector, BET huggies, domes, tips, Wax guard and 2 pin S & V cords. Also, 1164 free hearing aids were distributed under the Client Welfare Fund.

The hearing aids were also distributed free of cost at the Outreach Service Centres (OSC) and Newborn Screening Centres of the Institute as detailed in table 19.

**Table 19: Hearing aid distribution at OSCs / NBS Centers**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **OSC** | **No. of hearing aids** |
|
|
|  | Belagavi Institute of Medical Science, Belagavi | 14 |
|  | Community Health Centre, Hullahalli | 01 |
|  | Kodagu Institute of Medical Science, Kodagu | 71 |
|  | Primary Health Centre, Gumballi | 76 |
|  | Sub-divisional Hospital, Sagara | 10 |
|  | Taluk General Hospital, K R Pete | 41 |
|  | Taluk Hospital, Nanjangud | 31 |
|  | Vivekananda Memorial Hospital, H. D. Kote, Sarguru | 39 |
|  | **Total** | **283** |

* **Counselling and Guidance:** The professional experts of the Institute provided counselling and guidance on various aspects of the disorders such as treatment procedures, usage and care of tools like hearing aids during the reporting year.

**Issue of Certificates:** Various certificates like financial aid, income tax exemption, educational scholarship, and school admission were issued to the eligible candidates during the reporting year, the details of which are given in table 20.

**Table 20: Details of certificates issued**

|  |  |
| --- | --- |
| **Particulars** | **Total** |
| Transfer certificate | 28 |
| Evaluation reports | 222 |
| Attendance certificate | 23 |
| School admission certificate | 12 |
| Language Exemption certificate | 38 |
| Admission to deaf school | 15 |
| Railway concession | 96 |
| Bonafide certificate | 10 |
| Handicapped Certificate (Pension) | 430 |
| Medical Certificate | 08 |

**Financial Aid:** The institute distributed total amount of Rs. 7,38,945/-among 86 clients below poverty line towards the purchase of hearing aids during the reporting year under the aegis of the Department of Clinical Services.

**Clinical Observation Posting**

The institute facilitated clinical observation posting for students in the area of communication disorders and allied fields from other institutes in the country and abroad. Around 300 students and staff from 17 institutes across the country were posted for clinical observation in different clinical units and departments of the institute during the reporting year. The details of the institutions are given below.

1. Ayurveda Mahavidyalaya, Shahpur, Belgaum
2. Central University of Karnataka, Kalaburgi
3. Coorg Institute of Dental Sciences, Virajpet, Coorg
4. Department of Shalakya Tantra, Bengaluru
5. Department of Studies in MSW, University of Mysore, Mysuru
6. Department of Studies in Psychology, SDM College, Ujire
7. Department of Studies in Psychology, Kateel Ashok Pai Memorial College, Shivamogga
8. Government Teacher Training College, Mysuru
9. GSSS Institute of Engineering & Technology, Mysuru
10. Maharaja Institute of Technology, Mysuru
11. Mysore Medical College and Research Center, Mysuru
12. National Institute of Engineering, Mysuru
13. Regional Institute of Education, Mysuru
14. Srinivasa Institute of Medical Sciences & Research, Mangalore
15. St. Agnes Centre for Post-Graduate Studies and Research, Mangalore
16. St. Philomena’s College, Mysuru
17. Teresian college, Mysuru