

# 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 12 Outreach Service Centres (OSCs) and 13 New-born Screening Centres across the country. Of the 12 OSCs, four were opened during the reporting year. 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 17 hospitals in Mysuru, 12 Outreach Service Centres (OSC) and their nearby hospitals and 13 Newborn Screening Centres (NBS) of the Institute functioning in different parts of the country. A total of 34051 newborns were screened. Of these, 2340 were at risk for communication disorders. The details are given in table 1.

Table 1: Newborn/ Infant Screening

Sl. No	Hospitals/ Immunization Centers	Total screened	Total No. at risk
<b>I. Hospitals in Mysuru</b>			
1.	KR Hospital, Cheluvamba Hospital	3570	143
2.	Kamakshi Hospital	551	6
3.	Mission Hospital (MH)	79	25
4.	Chamundeshwari Nursing Home	45	0
5.	Ashwini Nursing Home	63	0
6.	Shree Devi Nursing Home	117	0
7.	St. Joseph's Hospital	1	0
8.	Mahadeshwara Nursing Home	79	2
9.	Sigma Hospital	307	4
10.	Jayanagar Maternity Hospital	317	2
11.	NPC Maternity Hospital	53	3
12.	Makkalakoota - Immunization Centre	90	1
13.	Immunization Centre, Kyathmanalli	35	0
14.	Lakshmidewamma Shankarshetty Maternity Hospital	18	0
15.	Seth Mohandas Tulsidas Maternity Hospital	90	0
16.	Gopala Gowda Shanthaveri Memorial Hospital	11	1
17.	Brindavan Hospital	16	0
<b>Total</b>		<b>5442</b>	<b>187</b>
<b>II. Outreach Service Centers</b>			
1.	Sub-divisional Hospital, Sagara Taluk, Karnataka	917	38
2.	Primary Health centre (Under Karuna trust), Gumballi, Karnataka	123	19
	Taluk Hospital, Yelandur, Gumballi, Karnataka*	33	5
	Community Health Centre, Santhemarahalli, Gumballi, Karnataka*	89	12

Sl. No	Hospitals/ Immunization Centers	Total screened	Total No. at risk
<b>II. Outreach Service Centers</b>			
3.	Vivekananda Memorial hospital, H. D. Kote, Sarguru, Karnataka	460	64
	<i>st, Mary's Hospital, HD kote, Sarguru, Karnataka*</i>	1159	133
	<i>Taluk Hospital, H. D. Kote- Immunization, Sarguru, Karnataka*</i>	879	64
4.	Taluk Hospital, Nanjangud, Karnataka	298	0
	<i>Community Health Centre , Hullahalli, Karnataka*</i>	8	0
5.	Taluk General Hospital, KR. Pete, Mandya, Karnataka	270	10
	<i>Sub-divisional hospital, K R Nagar Taluk, Yadavagiri, Mysore, Karnataka*</i>	145	2
6.	Gulbarga Institute of Medical Sciences, Kalaburgi, Karnataka	371	160
7.	Kodagu Institute of Medical Science, Kodagu, Karnataka	2097	66
8.	Belagavi Institute of Medical Science, Belagavi, Karnataka	1055	122
9.	Bidar Institute of Medical Sciences, Bidar, Karnatka	53	38
10.	All India Institute of Medical Sciences, Bhuvaneshwar, Orissa	13	7
11.	Karnataka Institute of Medical Sciences, Hubli, Karnataka	94	49
12.	Indira Gandhi Institute of Medical Sciences, Patna, Bihar	7	7
<b>Total</b>		<b>8071</b>	<b>796</b>

<b>III. New-born Screening Centers</b>			
1.	All India Institute of Medical Science, Patna	49	2
2.	All India Institute of Physical Medicine and Rehabilitation, Mumbai	64	11
3.	Janana Hospital & JLNMCH, Ajmer	4135	105
4.	Jawaharlal Nehru Medical College & Hospital, Bhagalpur, Bihar	1210	130
5.	JIPMER, Puducherry	4658	388
6.	King George's Medical University, Lucknow	680	90
7.	Netaji Subhash Chandra Bose Medical College, Jabalpur	3791	366



Sl. No	Hospitals/ Immunization Centers	Total screened	Total No. at risk
<b>III. New-born Screening Centers</b>			
8.	Post Graduate Institute of Medical Education and Research, New Delhi	698	36
9.	Rajendra Institute of Medical Sciences, Baritayu, Ranchi	1631	68
10.	Regional Institute of Medical Sciences, Imphal	467	32
11.	Sri Devaraj Urs Academy of Higher Education and Research, Kolar	1049	0
12.	Sri Ramachandra Bhanj Medical College and Hospital, Cuttack	1646	65
13.	Vivekananda Memorial Hospital, HD Kote, Sarguru	460	64
<b>Total</b>		<b>20538</b>	<b>1357</b>
<b>Grand Total</b>		<b>34051</b>	<b>2340</b>

*\*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	572	1621	1015
Referred for detailed evaluation	18	136	36
Total Phone follow up	590	1757	1051

The new-borns/infants who were found at risk for communication disorder even after phone followup 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	NBSCenters	Total
Clinically Normal (CN)	8	219	251	478
Hearing disorder (HI)	00	11	171	182
Speech Disorder (SD)	01	03	41	45

## 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, 490



employees were screened, and among them, 162 were referred for detailed evaluation. 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. Totally, 76 employees attended for the detailed audiological evaluation at the Institute. Of the 152 ears tested, 17 had normal hearing, 47 minimal hearing loss, 74 mild hearing loss, 13 moderate hearing loss and one moderately severe hearing loss.

## Student Screening

Nursery, primary school, secondary school and PU college students were screened for communication disorders as a part of the school screening programme during the reporting year. Totally, 2642 students were screened and among them 131 (4.9%) were identified with ear-related disorders, 125 (4.7%) with hearing loss and 75 (2.8%) 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. Totally, 64 elderly citizens were screened and among them 24 persons passed the hearing test. The remaining 40 elders had hearing loss (26 nos.), speech-language disorders (14 nos.), cognitive disorders (11 nos.), ENT issues, and swallowing disorders (2 nos.).





## Camp-based Screening

The Institute organized seventy 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 5936 individuals for communication disorders in the camps. The details are given in table 4.





Table 4: Camp-based Screening

Sl. No.	Date	Location	No. of Cases
1.	16.06.2020	Hanchipura PHC, Heggadadevanakote taluk, Mysuru	5
2.	18.06.2020	Hampapura Anganawadi, Heggadadevanakote taluk, Mysuru	7
3.	18.06.2020	Jinnalli Anganawadi, Sargur, Mysuru	7
4.	19.06.2020	N. Belthur PHC, Heggadadevanakote taluk, Mysuru	30
5.	20.06.2020	Annuru PHC, Maddur taluk, Mandya	14
6.	22.06.2020	Mulluru PHC, Kollegalataluk, Chamarajanagara	12
7.	23.06.2020	Savve Anganawadi, Heggadadevanakote taluk, Mysuru	30
8.	24.06.2020	Neralekuppe PHC, Piriapatna, Mysuru	60
9.	25.06.2020	Kollegala Anganawadi, Chamarajanagara	11
10.	26.06.2020	Kenchenahalli, Bidrahalli, Anganawadi, Bengaluru	22
11.	01.07.2020	Koolya Middle School, HD Kote taluk, Mysuru	14
12.	01.07.2020	Itnahebbal PHC, Mysuru	62
13.	10.07.2020	Kothegala PHC, Hunsur taluk, Mysuru	32
14.	02.09.2020	Dharmapura Anganawadi, Hunsur taluk, Mysuru	31
15.	09.09.2020	Chowthi Anganawadi, Periya patna taluk, Mysuru	30
16.	16.09.2020	Kittur Anganawadi, Periya patna taluk, Mysuru	31
17.	23.09.2020	Anganawadi, Hunsur taluk, Mysuru	29
18.	30.09.2020	Seegur Anganawadi, Periyapatna taluk, Mysuru	31
19.	07.10.2020	Doddanerale, Anganawadi, Periyapatna taluk, Mysuru	31
20.	14.10.2020	Manuganahalli, Anganawadi, Hunsur taluk, Mysuru	22
21.	21.10.2020	Bettadapura, Anganawadi, Periyapatna taluk, Mysuru	24
22.	16.10.2020 to 21.10.2020	Viveka Rural Livelihood Centre Kenchanahalli, HD Kote taluk, Mysuru	14
23.	04.11.2020	Somanahalli, Anganawadi, Hunsur taluk, Mysuru	26
24.	12.11.2020	Bettadpura, Anganawadi, Periyapatna taluk, Mysuru	31

Sl. No.	Date	Location	No. of Cases
25.	12.11.2020	Vivekananda Memorial Hospital, Saragur taluk, Mysuru	22
26.	18.11.2020	Hosakote, Rathnapuri-Anganawadi, Hunsur taluk, Mysuru	29
27.	19.11.2020 to 23.11.2020	Viveka Rural Livelihood Centre Kenchanahalli, HD Kote taluk, Mysuru	15
28.	25.11.2020	Gorahalli, Kullanakoppulu-Anganwadi-Piriyapatna taluk, Mysuru	22
29.	28.12.2020 to 01.01.2021	Viveka Rural Livelihood Centre, Kenchanahalli, HD Kote taluk, Mysuru	13
30.	06.01.2021	Arvey, Anganawadi, Hunsur taluk, Mysuru	10
31.	13.01.2021	Channakesavapura, Anganwadi, Periyapatna taluk, Mysuru	16
32.	16.01.2021	Vedavysa Yoga foundation, Mysuru	33
33.	20.01.2021	Hearing screening at Halekere, Anganwadi, Piriyapatna taluk, Mysuru	36
34.	19.01.2021 to 22.01.2021	Residential camp for Cerebral Palsy, Nanjangud taluk, Mysuru	24
35.	25.01.2021	School Screening Camp, Viveka School of Excellence, Sarguru taluk, Mysuru	56
36.	27.01.2021	Ichooru, Anganwadi, Periyapatnataluk, Mysuru	21
37.	28.01.2021	L & T, Bengaluru	283
38.	29.01.2021	Devirammanahalli Punchaya Office, Nanjangudu taluk, Mysuru	50
39.	02.02.2021	Inner wheel rotary club, Hadinaru village, Mysuru	104
40.	03.02.2021	Anganawadi, Hunsur taluk, Mysuru	40
41.	05.02.2021	Govt High school, Varuna Hobli, Mysuru	294
42.	05.02.2021	Government High school, Varuna Hobli, Mysuru	294
43.	09.02.2021	Govt High school, Belavadi taluk, Mysuru	97
44.	09.02.2021	Government High school, Belavadi taluk, Mysuru	97

Sl. No.	Date	Location	No. of Cases
45.	10.02.2021	JP Hindustan First Grade College, Mysuru	136
46.	10.02.2021	Anganawadi, Hunsur taluk, Mysuru	33
47.	12.02.2021	Adarsha Vidyalaya Govt School, Mysuru	264
48.	16.02.2021 & 17.02.2021	Sree Nataraja Public school, Mysuru	204
49.	19.02.2021	Government High school, Varakodu VarunaHobli, Mysuru	174
50.	23.02.2021	University of Mysore, Mysuru	102
51.	24.02.2021	Anganwaadi Bhuvanahalli, Piriapatna taluk, Mysuru	37
52.	25.02.2021	Railway station premises, Mysuru	155
53.	26.02.2021	Govt. High School, Hommaragalli, HD Kote taluk, Mysuru	362
54.	01.03.2021	Mysore City Corporation, Mysuru	173
55.	02.03.2021	Govt High School, Chorannahalli, Varuna Hobli, Mysuru	85
56.	03.03.2021	University of Mysore, Mysuru	129
57.	03.03.2021	King George's Medical University, Lucknow, Uttar Pradesh	54
58.	08.03.2021	Govt. School, HD Kote taluk, Mysuru	26
59.	10.03.2021	Rotary Vidya Samsthe, Hunsur taluk, Mysuru	36
60.	01.03.2021 & 13.03.2021	VMH, Sarguru taluk, Mysuru	60
61.	17.03.2021	Angawadi, Maraduru, Mysuru	34
62.	17.03.2021	Anganwadi, Hosuru, Mysuru	14
63.	20.03.2021	Tribal health resource center, B R Hills, Yelandur taluk, Chamarajanagar	14
64.	21.03.2021	Gajera, Jambusar taluk, Gujarat	67



Sl. No.	Date	Location	No. of Cases
65.	21.03.2021	Ankhi, Jambusar taluk, Gujarat	41
66.	22.03.2021	Jambusarvill, Jambusar taluk, Gujarat	41
67.	22.03.2021	Amod, Amod taluk, Gujarat	31
68.	23.03.2021	Buva, Amod taluk, Gujarat	18
69.	23.03.2021	Samni, Gujarat	44
70.	24.03.2021	Anganwadi, Piriapatna taluk, Mysuru	60
71.	24.03.2021 & 25.03.2021	Karnataka Power Cooperation Limited, Jog and Kargal, Shivamoga	207
72.	31.03.2021	Anganwadi, Hunsur, Sargur taluk, Mysuru	33







## Screening the General Public

The general public were screened for speech, language and hearing disorders at the Department of POCD at AIISH and Outreach Service Centres at Belagavi, Kalaburgi, Nanjangud, Gumballi, Akkihebbalu, Sarguru and Sagara. Totally, 2648 persons were screened and among them, 605 had hearing loss, 95 had speech-language disorders and 14 ENT issues. The affected persons were provided with appropriate rehabilitation services.

## Clinical Services at Outreach Service Centers

Diagnostic and therapeutic services on communication disorders were provided at the Outreach Service Centres of the institute located in different parts of the country. Totally, 2633 persons were registered for availing clinical services at the 14 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.







Table5: Speech-Language and Hearing evaluation at the Outreach Service Centers

Type of Disorders	Outreach Service Centers														Total
	Taluk Hospital, Nanjangud	Primary Health Centre (PHC), Hullahalli	Primary Health Centre (PHC), Akkhebbal	Taluk General Hospital, KR Pete	Primary Health Centre (PHC), Gumballi	Sub-divisional Hospital, Sagara (PHC) Taluk	VMH, Sarguru	BIMS Belagavi	GIMS, Kalburgi	KIMS, Kodagu	AIMS, Bhuvaneshwar	KIMS, Hubli	BRIMS, Bidar	IGIMS, Patna	
Hearing disorders (Ear-wise data)															
Normal	47	2	2	88	4	31	70	912	206	444	4	23	2	-	1835
Conductive	24	-	-	41	6	31	33	50	106	53	4	61	2	-	411
Sensorineural	40	30	12	62	109	42	41	247	334	321	12	72	48	-	1370
Mixed	17	1	8	66	12	23	21	52	219	78	5	43	12	-	557
No type (Minimal & Profound)	18	1	-	59	19	55	51	133	429	226	25	71	6	-	1093
Aud-Total (ears)	146	34	22	316	150	182	216	1394	1294	1122	50	270	70	-	5266
Aud-Total (Individuals)	73	17	11	158	75	91	108	697	647	561	25	135	35	-	2633
Speech-Language Disorders															
Voice	1	-	-	-	-	-	2	2	7	6	17	13	-	1	49
Fluency	4	-	-	3	-	2	2	8	12	13	2	4	-	-	50
Articulation disorders	2	1	-	2	1	6	5	5	38	12	15	4	-	1	92
Language disorders	9	3	3	19	9	25	49	72	110	29	21	12	6	1	368
Total (Individuals)	16	4	3	24	10	33	58	87	167	60	55	33	6	3	559



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

Outreach Service Center	Hearing Aids Dispensed	Speech-language therapy		
		No. of clients	No. of regular sessions	No. of Tele-sessions
Taluk Hospital, Nanjungudu	31	40	45	172
Kodagu Institute of Medical Science, Kodagu	22	97	90	484
Taluk General Hospital, KR Pet	17	26	-	189
Vivekananda Memorial hospital, HD Kote, Sarguru	100	84	102	102
Sub-divisional Hospital, Sagara	4	113	125	524
Primary Health Centre (Under Karuna trust), Gumballi	19	27	34	103
Taluk Hospital, Akkihebbalu	10	4	0	38
Community Health Centre, Hullahalli	-	7	7	0
Gulbarga Institute of Medical Sciences, Kalaburgi	-	67	8	432
Belagavi Institute of Medical Science, Belagavi	-	68	36	176
<b>Total</b>	<b>203</b>	<b>533</b>	<b>447</b>	<b>2220</b>



## 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

	Articulation		Fluency		Language		Voice		Swallowing		Resonance	
	Cases	Sessions	Cases	Sessions	Cases	Sessions	Cases	Sessions	Cases	Sessions	Cases	Sessions
Paediatric	7	159	2	47	69	1849	NIL	NIL	NIL	NIL	NIL	NIL
Adult	3	22	4	120	9	549	2	48	NIL	NIL	2	NIL
Geriatric	NIL	NIL	NIL	NIL	1	10	NIL	NIL	2	36	Nil	Nil
Paediatric: 0-18 years; Adults: 18-65 years; Geriatric: 65 years & above												

Table 8: Country-wise Tele-assessment and Intervention

Country	No. of Cases	No. of Sessions
Australia	1	41
Dubai	1	80
India	82	2271
Ireland	1	5
Japan	1	25
Qatar	4	136
Kuwait	1	46
UK	2	130
US	5	62
Singapore	1	43
<b>Grand Total</b>	<b>99</b>	<b>2839</b>



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

States	No. of Cases	No. of Sessions
Andhra Pradesh	1	4
Assam	3	89
Chattisgarh	1	66
Chandigarh	2	29
Haryana	1	59
Jharkhand	3	111
Karnataka	37	1100
Kerala	3	85
Maharashtra	2	78
Madhyapradesh	1	32
New Delhi	6	167
Orissa	2	5
Pondicherry	1	16
Rajasthan	2	66
Tamil Nadu	8	211
Telangana	1	46
UP	5	63
Uttrakand	1	4
West Bengal	2	40
<b>Grand Total</b>	<b>82</b>	<b>2271</b>

