

## OUTREACH SERVICES

The institute carries out various outreach services on communication and its disorders in different parts of 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 abilities 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 and Eighteen Service Centres (OSC) of the Institute functioning in different parts of Karnataka and Thirteen Newborn Screening Centres functioning in hospitals attached with the AIISH DHLS centres at All India Institute of Medical Science (AIIMS), Patna; All India Institute of Physical Medicine and Rehabilitation (AIIPMR), Mumbai; Janana Hospital & JLN MCH, Ajmer; Jawaharlal Nehru Medical College & Hospital, Bhagalpur, Bihar; JIPMER, Puducherry; King George's Medical University (KGMU), Lucknow; NetajiSubhash Chandra Bose Medical College, Jabalpur; Post Graduate Institute of Medical Education and Research (PGIMER), New Delhi; Rajendra Institute of Medical Sciences, Baritayu, Ranchi; Regional Institute of Medical Sciences (RIMS), Imphal; Sri Devaraj Urs Academy Of Higher Education and Research (SDUAHER), Kolar; Sri Ramachandra Bhanj Medical College and Hospital (SCB MCH), Cuttack; Vivekananda Memorial hospital, H.D. Kote Sarguru and a total of **46937** newborns were screened. Of these, **3158** babies were at risk for communication disorders. The details are given in table 1.

**Table 1: Total number of newborns/infants screened and identified at-risk for communication disorders**

<b>Sl. No</b>	<b>Hospitals/Immunization Centers</b>	<b>Total screened</b>	<b>Total No. at risk</b>
<b>I. Hospitals in Mysuru</b>			
1.	KR Hospital (KRH) - Cheluvamba	3570	143
2.	Kamakshi Hospital (KH)	551	06
3.	Mission Hospital (MH)	79	25
4.	Chamundeshwari Nursing Home (CNH)	45	00
5.	Ashwini Nursing Home (ANH)	63	00
6.	Shree Devi Nursing Home (SNH)	117	00
7.	St. Joseph's Hospital	01	00
8.	Mahadeshwara Nursing Home (MNH)	79	02
9.	Sigma Hospital (SH)	307	04
10.	Jayanagar Maternity Hospital (JMH)	317	02
11.	NPC Maternity hospital	53	03
12.	Makkalakoota - Immunization Centre	90	01
13.	Immunization Centre, Kyathmanalli	35	00
14.	Lakshmiddevamma Shankarshetty Maternity Hospital	18	00
15.	Seth Mohandas Tulsidas Maternity Hospital (S.M.T.D.H) Hospital	90	00
16.	Gopala Gowda Shanthaveri Memorial Hospital (GGSMH)	11	01
17.	Brindavan Hospital	16	00
<b>Total</b>		<b>5442</b>	<b>187</b>
<b>II. Outreach Service Centers</b>			
1.	Taluk Hospital, K.R Nagar Taluk	145	02
2.	Sub-divisional Hospital, Sagara Taluk	917	38
3.	St. Mary's Hospital, HD kote	1159	133
4.	Vivekananda Memorial hospital, H. D. Kote Sarguru	460	64
5.	Taluk Hospital, H. D. Kote- Immunization	879	64
6.	Gulbarga Institute of Medical Sciences , Kalaburagi	371	160
7.	Taluk General Hospital, KR. Pete	270	10
8.	Community Health Centre (CHC), Santhemarahalli	89	12
9.	Taluk Hospital, Yelandur	33	05
10.	Primary Health Centre (Under Karuna trust), Gumballi	123	19
11.	Taluk Hospital, Nanjangud	298	00
12.	Community Health Centre (CHC), Hullahalli	08	00
13.	Belagavi Institute of Medical Science, Belagavi	1055	122
14.	Kodagu Institute of Medical Science ,Kodagu	2097	66
15.	AIIMS,Bhuvaneshwar	13	07
16.	KIMS,Hubli	94	49

17.	IGIMS,Patna	07	07
18.	BRIMS,Bidar	53	38
<b>Total</b>		<b>8071</b>	<b>796</b>
<b>III. Newborn Screening Centers</b>			
1.	All India Institute of Medical Science (AIIMS), Patna	49	2
2.	All India Institute of Physical Medicine and Rehabilitation (AIIPMR), Mumbai	64	11
3.	Janana Hospital & JLN MCH, Ajmer	4135	105
4.	Jawaharlal Nehru Medical College & Hospital, Bhagalpur, Bihar	1210	130
5.	JIPMER, Puducherry	4658	388
6.	King George's Medical University (KGMU) Lucknow	680	90
7.	NetajiSubhash Chandra Bose Medical College , Jabalpur	3791	366
8.	Post Graduate Institute of Medical Education and Research (PGIMER), New Delhi	698	36
9.	Rajendra Institute of Medical Sciences, Baritayu, Ranchi	1631	68
10.	Regional Institute of Medical Sciences (RIMS), Imphal	467	32
11.	Sri Devaraj Urs Academy Of Higher Education and Research (SDUAHER), Kolar	1049	0
12.	Sri Ramachandra Bhanj Medical College and Hospital (SCB MCH), Cuttack	1646	65
13.	Vivekananda Memorial hospital, H.D. Kote Sarguru	460	64
<b>Total (NBS Centers)</b>		<b>20538</b>	<b>1357</b>
<b>Total (POCD+OSC+NBS)</b>		<b>46937</b>	<b>3158</b>

### **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, Mysore 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.

### **Industrial Screening**

The Institute also 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 among them **162** employees were referred for detailed evaluation. The employees and the employers 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. In addition, follow up evaluation for hearing was carried out for **147** industrial employees at AIISH.

## Student Screening

Nursery, primary school, secondary school and PU college students from 45 schools 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 residing in different old age homes in Mysuru. Totally, 64 elderly citizens were screened and among them 26 ears were identified had hearing loss and 14 elders were identified with speech-language disorders. The elders were provided with counselling and communication strategies.

## Camp-based Screening

The Institute organized three camps in various localities across Karnataka during the reporting year. The expert speech, hearing and allied health professionals of the institute screened 645 persons 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
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## Bedside Screening

### Clinical Services at Outreach Service Centers (OSCs):

Diagnostic and therapeutic services on communication disorders were provided at the five Outreach Service Centres (OSCs) of the institute located in Sub-divisional taluk hospital, Sagara, Community Health Center (CHC), Hullahalli, Primary Health Centre (PHC), Akkihebbalu, Primary Health Centre (PHC), Gumballi, and Vivekananda Memorial Hospital (VMH), Sarguru, Nanjangud. Totally, 2468 persons availed evaluation services, 203 hearing aids were distributed among the needy cases. 190 persons underwent speech-language therapy and the details of those who registered and availed various services/benefits at the OSCs are in tables 5 and 6 respectively, and the follow-up cases in table 7.

Table 5: Clinical Services at OSCs

No. of OSCs	Total registered	Hearing Evaluation		Speech & Language Evaluation	
		Normal ears	Disordered ears	Normal	Disordered
14	2633	1835	5266		

Table 6: Rehabilitation services provided at the Outreach Service Centres

OSC	Hearing Aids Dispensed	Speech-language therapy		
		No. of clients	No. of regular sessions	No. of Tele-sessions
OSC Nanjungud	31	40	45	172
OSC Kodagu	22	97	90	484
OSC KR Pet	17	26	-	189
OSC Sarguru	100	84	102	102
OSC Sagara	4	113	125	524
OSC Gumballi	19	27	34	103
OSC Akkihebbalu	10	4	0	38
OSC Hullhalli	-	7	7	0
OSC Kalburgi	-	67	8	432
OSC 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 Telecentre 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: Total number of cases and tele-sessions delivered

	Articulation		Fluency		Language		Voice		Swallowing		Resonance	
	Total No of Cases	Total No. of Sessions	Total No of Cases	Total No. of Sessions	Total No of Cases	Total No. of Sessions	Total No of Cases	Total No. of Sessions	Total No of Cases	Total No. of Sessions	Total No of Cases	Total No. of Sessions
<b>Pediatric</b>	7	159	2	47	69	1849	-	-	-	-	-	-
<b>Adult</b>	3	22	4	120	9	549	2	48	-	-	2	-
<b>Geriatric</b>	-	-	-	-	1	10	-	-	2	36	Nil	Nil
* 0-18Years Paediatric; 18-65 Years Adults; >65 years-Geriatric												

Table 8: Total number cases and tele-sessions delivered across the World

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

Table 9: Total number cases and tele-sessions delivered across India

<b>States of India</b>	<b>No. of Cases</b>	<b>No. of Sessions</b>
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>

### **Itinerant Service**

The Institute offered itinerant service on prevention and control of communication disorders for the regular school children through the itinerant speech therapist and medical social worker. The service was provided at 28 schools (64 visits) and follow up activity was carried out for 154 (new-83, follow up-71) children identified with various types of communication disorders availing therapy at AIISH during the reporting year. Also, during the visit, 175 teachers were given guidelines to include children with communication disorders in regular classrooms.