

It is important to refer children to a Audiologist/Speech-Language Pathologist when you see the following

Risk factors

- Consanguinity
- Positive sibling history
- Intake of mycin group and or other any other ototoxic medication during pregnancy
- Viral/bacterial infection during pregnancy and/ or to the child
- Premature/abnormal delivery
- Very low birth weight (< 1.5kg)
- Aspiration of amniotic fluid
- Birth asphyxia
- Delayed birth cry
- Neonatal jaundice
- Fetal distress
- Abnormal APGAR score
- NICU >5days
- Craniofacial/Structural/ Congenital anomalies/ syndromes
- Convulsions
- H/o ASOM/CSOM
- Any trauma leading to speech loss / hearing loss.
- Exposure to high noise

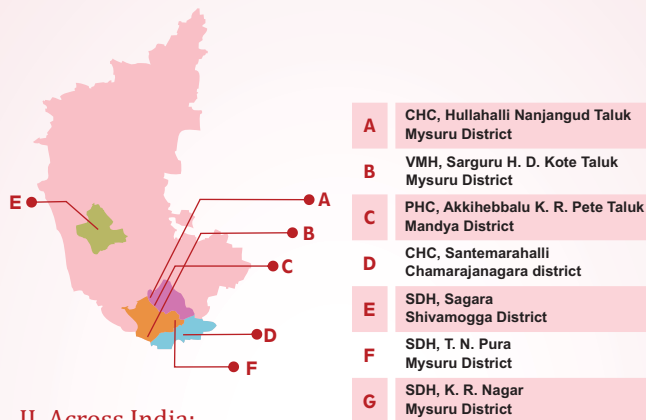
Disorders

- Autism
- Mental retardation
- Attention Deficit Hyperactive Disorder
- Hearing impairment
- Inadequate speech and language skills
- Stuttering/Stammering
- Unclear speech (Misarticulation)
- Learning disability/ Dyslexia/ Slow learners/ Central Auditory Processing Disorders (CAPD)
- Voice disorders
- Aphasia-Stroke/Trauma leading to Speech-Language difficulties
- Dysphagia (Swallowing Disorder)
- Dementia (Memory) & other cognitive related disorders
- Dysarthria (Slurred Speech)
- Any other syndromic conditions
- Cerebral palsy
- Cleft Lip & Palate

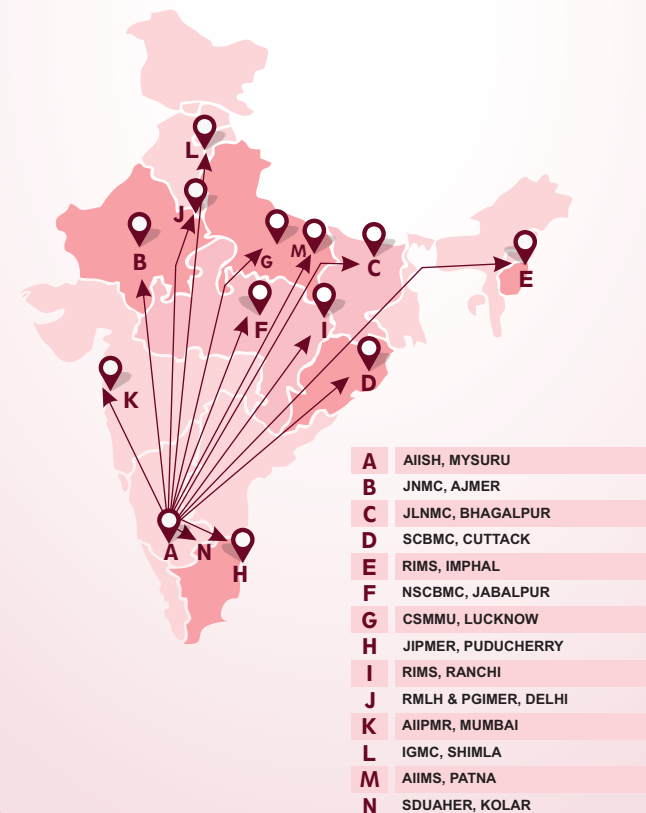
Hospitals collaborating with AIISH to provide NBS services:

I. In Karnataka:

- A. In Mysuru city: 19 local Mysore hospitals.
- B. Outside Mysuru city



II. Across India:



About AIISH

The All India Institute of Speech and Hearing (AIISH), an autonomous institute under the Ministry of Health and Family Welfare, Govt. of India, was established in the year 1965 to cater to the needs of individuals with communication disorders.



Some facts

CENSUS 2011	<ul style="list-style-type: none"> • Total persons with disability identified were 268,14,994, among which 50,72,914 had hearing loss
Disabled People's International (DPI), 2016	<ul style="list-style-type: none"> • 23% of children in the age range of 0-6 years had hearing loss • 7% had Multiple disability
NBS Screening Report of AIISH (2014-15)	<ul style="list-style-type: none"> • 32.93% of infant are confirmed as having permanent hearing loss • 4.76% had Multiple disability



DEPARTMENT OF PREVENTION OF COMMUNICATION DISORDERS

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Newborn Screening Program For Communication Disorders



Department of Prevention of Communication Disorders

All India Institute of Speech and Hearing

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Department of Prevention of Communication Disorders (POCD)

This is an outreach department launched in the year 2008 at the premises of AIISH, Mysuru. The main aim of the Department is to reach out to individuals even in the most remote areas of the country and facilitate primary, secondary and tertiary prevention of various communication disorders such as hearing impairment, speech disorders, language disorders etc. in all age groups. This involves creating awareness about communication disorders, as well as early identification and early rehabilitation through several programs. One such program is the newborn screening for communication disorders.

Newborn Screening (NBS) Program

Newborns are screened for communication disorders, before they are discharged from the hospital. The screening is performed to detect hearing impairment and other developmental disabilities that can affect speech and language development. This would facilitate early intervention for those identified with these disorders.

Need for screening newborns

The first three years of life is the most crucial period for acquiring speech and language skills. Babies acquire speech and language from the time they are born. One of the ways they learn is through hearing. If they have any problem with hearing and/or other disorders they may have delayed speech and language development.



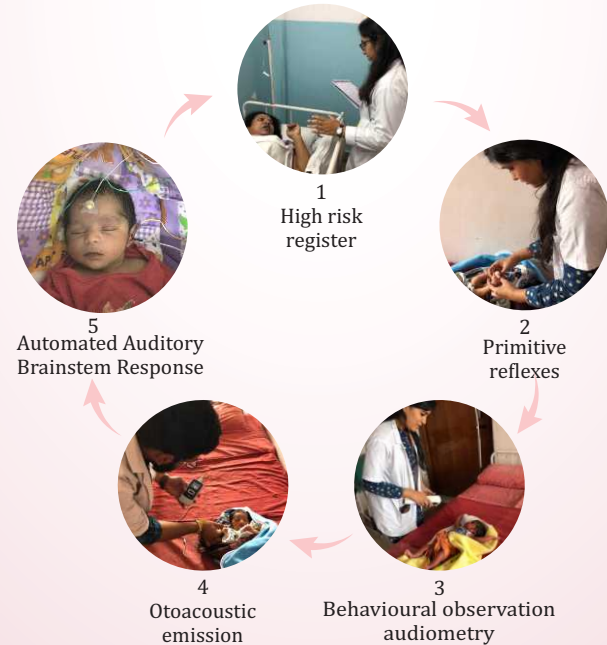
Objective of the NBS program

- **Screening:** To screen every newborn for hearing impairment and other developmental disabilities and identify those at risk for communication disorders.
- **Assessment and Rehabilitation:** To carry out detailed assessment for those identified as at-risk and to refer for further management.
- **Sensitization:** To educate the parents/ caregivers so as to empower them in detecting late onset disorders.

Process

Step I - Screening:

A battery of sensitive screening tools is used by a team of professionals including Audiologists/ Speech-Language Pathologists and ENT specialists to detect babies' at-risk.



If the newborn passes the screening and has no risk factors, the screening is deemed complete.

If, for some reason, the newborn does not pass the screen, a rescreening is done.

If the newborn passes the two levels of screening and has risk factors for late onset disorders, then, they are monitored closely.

Step 2 - Detailed assessment & Rehabilitation: If the newborn does not pass the screening and the rescreening, he/she is referred for further detailed assessment.

If the assessment confirms the presence of hearing impairment or other developmental disabilities, they are referred for speech and language therapy, because early intervention is crucial for the children to perform in par with their peer group.

Step 3 - Sensitization: The caregivers and their family members are educated about the importance of early detection, the results of the screening process, risk factors for late-onset conditions, normal developmental milestones, and importance of speech stimulation.

Requirement for conducting newborn screening

The newborn screening for communication disorders is carried out in the hospitals/maternity homes with the infant sleeping/resting. A silent room without any electrical interference preferably located near to the maternity ward is required.

Procedure to avail this service

- ➔ This program is provided to all the hospitals / maternity homes/ immunization centers on a request basis, FREE of COST.
- ➔ Use the application attached or log into http://aiishmysore.in/en/departments_pocd.html and submit the requisition online.

Requisition form for conducting Newborn Screening program

Name of the Hospital/Private clinic/Immunization centre/ Maternity home.....

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Contact Person (with designation): Dr./Mr./Ms./Mrs.....

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Address.....

.....

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Contact No.:.....

Email:.....

Fax No.:.....

Birth rate in your hospital:..... / month

Reason for your interest:.....

.....

Brief description about your Hospital/Private clinic/ Immunization centre/ Maternity home:

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Any other information would you like to provide:.....

.....

Date: _____ **Signature with designation** _____