



## **YOUR BABY'S HEARING SCREEN – INFORMATION FOR THOSE WITH PARENTAL RESPONSIBILITY**

Your baby will be offered a newborn hearing screening test shortly after birth. This quick and simple test is offered to all newborn babies who are born in, reside, or who move into, Northern Ireland aged up to 182 days.

### **Purpose of newborn hearing screening**

The aim of the programme is to identify babies born with a permanent childhood hearing impairment (PCHI) at an early stage, to allow timely intervention and improved outcomes. Approximately one to two babies in every 1,000 are born with a permanent hearing loss in one or both ears.

### **Participation in newborn hearing screening**

This screening test is recommended for your baby, even if there is no history of hearing loss in your family. Finding hearing loss (in one or both ears) early is important for your baby's development.

### **When and where will the screening test be done?**

The screening test will usually be done in the maternity unit before you go home or at an outpatient clinic within the first few weeks of life.

### **What does the screening test involve?**

The screening test is painless and is usually done while the baby is sleeping. A trained screener carries out the test at the bedside or in a quiet place. The screener will place a small soft tipped ear piece in the outer part of your baby's ear which sends clicking sounds into the ear. When the inner part of

the ear receives a sound, it usually produces a response. Using a computer, the screener can see how your baby's ear responds to the sounds. This is called the automated otoacoustic emission (AOAE) test.

### When will I receive the results?

The results will be given to you by the screener as soon as the screening test is complete.

### What do the results mean?

If the screening test shows a clear response from both of your baby's ears, this means that your baby is unlikely to have a hearing loss. Your baby's Personal Child Health Record (PCHR or 'red book') contains a 'checklist' which gives advice about the sounds your baby should react to and the types of sounds that they should make as they grow older.

If you have any concerns regarding your baby's hearing, **at any age**, you should discuss them with your health visitor or GP. This is important, as hearing loss can occur at any age.

If the screen does not show clear responses from one or both ears this does not necessarily mean that your baby has a hearing loss. A follow up screen will be carried out. Some common reasons for not having a clear response include:

- Baby was unsettled at the time of the test;
- There was background noise at the time of the test;
- Fluid or a temporary blockage in the ear

### What does the follow up involve?

The follow up will be done before you leave hospital, or an appointment will be made for an outpatient clinic.

The AOAE test is usually repeated but if you are leaving hospital early, or there are no clear responses with the repeat AOAE test, your baby will have an automated auditory brainstem response (AABR) test. This test involves three small sensors being placed on your baby's head. Headphones are put over baby's ears and a series of clicking sounds are played. A computer measures how well your baby's ears respond to sounds. This test takes longer than the AOAE test and is carried out while your baby is sleeping.

Even if your baby appears to respond to sound it is still important that your baby has this follow up screen to confirm the hearing level, or if further tests are required. It is imperative that hearing levels are established, to determine hearing loss as soon as possible.

### What happens if the follow up shows clear responses?

This means your baby is unlikely to have a hearing loss. However, it is still important that you remain vigilant about your baby's hearing. If you have any concerns regarding your baby's hearing, **at any age**, you should discuss them with your health visitor or GP.

### What happens if the follow-up screening test does not show a clear response from both ears?

If there is not a clear response from one or both of your baby's ears you will be referred to your local audiology department for diagnostic tests to measure your baby's hearing levels. This does not necessarily mean that your baby has a hearing loss. You will be given a leaflet explaining what this involves.

### What is the likelihood of my baby having a hearing loss?

Most babies will record strong responses at the follow up screen and at the further tests carried out by the audiologist. However, there is the possibility that your baby may have a hearing loss. Finding out that your baby has a hearing loss early means that you and your baby will get advice and support as soon as possible.

### Targeted follow-up

Any baby who has particular risk factors, identified at the time of newborn hearing screening, will be offered a follow-up audiology appointment when baby is approximately 8 months old.

### Processing your baby's information

Information about your baby's newborn hearing screen results are recorded in his/her PCHR 'red book' and on the regional Smart4Hearing (S4H) IT system. We share your baby's newborn hearing screening results with staff who provide newborn hearing screening and with

audiology services. To help us provide the best care and service for you and your baby, we may need to share your information with other healthcare bodies such as your GP, your Health Visitor, the Health and Social Care Board (to inform service development), and other relevant professionals.

A dedicated privacy notice has been developed to describe how personal information will be processed within the S4H system and this is available to view/download at:

<https://www.publichealth.hscni.net/directorate-public-health/service-development-and-screening/newborn-screening>

Other translations of this leaflet are available to view/download at:

<https://www.publichealth.hscni.net/publications/newborn-hearing-screening-english-and-translations>

Contact details for your local newborn hearing screening office:

- Northern Health and Social Care Trust **028 25 635674**
- Southern Health and Social Care Trust **028 38 562125**
- South Eastern Health and Social Care Trust **028 90 564748**
- Western Health and Social Care Trust **028 71 611452**
- Belfast Health and Social Care Trust **028 90 633558**

Find more information on NI Direct -

<https://www.nidirect.gov.uk/articles/newborn-screening>

or Gov.uk: <https://www.gov.uk/topic/population-screening-programmes/newborn-hearing>

You can also contact the National Deaf Children's Society (NDCS) freephone helpline on 0808 800 8880 (voice and text)

<https://www.ndcs.org.uk/>

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