

Patient Information

## Centre for Hearing and Balance Disorders

# Paediatrics: Your child's hearing test appointment- information for you and your child (over eight months old)

Your child has been invited to the Centre for Hearing and Balance Disorders today so we can carry out a hearing test.

At this appointment, we will test your child's hearing using techniques suitable to their level of development. This appointment may take up to 45 minutes. There will be 1 or 2 paediatric audiologists at the appointment who will answer any questions you may have after testing is complete. A report will be given to you on the day explaining the results.

To avoid distractions during testing, it would be helpful if any other children did not come to this appointment.

If you have any special communication needs or questions relating to your appointment, please contact by phone, Minicom or email before this appointment. Contact information can be found on the final page of this leaflet.

University Hospitals Coventry & Warwickshire NHS Trust is a teaching centre and there may be a health professional trainee present in the clinic. If you do not wish them to attend your consultation, please inform reception when you book in.



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A hearing test is a simple, painless method of looking at the pathways of the ear. You will be seen by an audiologist and the appointment will be conducted in either a soundproof or sound treated room.

The hearing test may be performed by either one or two audiologists. When testing children, we have found that it works well if we treat the hearing test as a fun game rather than a formal test. The audiologist will start by taking a history, move to the hearing test 'game', discuss the results, and answer any questions that you may have after the test is complete.

There are many ways to perform a hearing test on a child. We may perform just one test or a whole range of tests to obtain enough relevant information about your child's hearing. As every child is different, we will decide which method to use when you attend with your child.

The following information explains the tests/games that may be carried out with your child when you attend your clinic appointment:

### **Otoacoustic emission testing**

This is a simple, painless method of assessing your child's inner ear function.

A small soft tipped earpiece is placed in the outer part of your child's ear, which sends clicking sounds down the ear. When the ear receives sound, the inner part, known as the cochlear, produces a response to sound. The equipment can pick up this response to sound and this is known as an otoacoustic emission.

The test takes only a few minutes and there are no side effects. The test does not hurt and is not uncomfortable. It can be done whilst your baby is settled although we appreciate this can be a challenge for older children.

### **Visual reinforcement audiometry (VRA)**

This is a simple, painless, and fun method of testing your child's hearing.

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The audiologist will ask you to put your child in a small chair or sit the child on your knee. An audiologist will sit in front of you and distract your child with a few simple toys. It's important that you just sit back and relax so that you don't give any clues to your child. A sound will then be played through a speaker on one side. When your child turns, they will be rewarded with a visual clue which will be for example an animated animal which will come up on a flat screen.

VRA testing when using a speaker tells us information about your child's overall hearing and does not test each ear separately. Sometimes it may be necessary to obtain ear specific information and if this is the case then a small soft ear tip will be placed in each ear so the sound can be delivered to each ear separately.

VRA can take up to 15 minutes depending on the child's concentration and there are no side effects. The test does not hurt and is not uncomfortable. It can be used for children aged from 7 months through to about 3 years of age but can also be used to test older children who are unable to take part in other forms of testing.

## Performance testing

This is a simple, painless, and fun method of testing your child's hearing.

The audiologist will ask you to put your child in a small chair or sit them on your knee. An audiologist will sit in front of you with toys such as a 'man in the boat' or some pegs and a board. It's important that you just sit back and relax so that you don't give any clues to your child. A sound will then be played through a speaker on one side. We will then condition your child to put the peg on the board or a man in the boat when they hear the sound. Your child will be rewarded with lots of smiles and praise.

Performance testing when using a speaker gets information about your child's overall hearing and does not test each ear separately. Sometimes it may be necessary to obtain ear specific information and if this is the case then a small soft ear tip will be placed in each ear or headphones will be placed over your child's ears.

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Performance testing can take up to 15 minutes depending on the child's concentration and there are no side effects. The test does not hurt and is not uncomfortable. It can be used for children aged from 2½ and can also be used to test older children who are unable to take part in other forms of testing.

### **Play audiometry**

This is a simple, painless, and fun method of testing your child's hearing.

The audiologist will ask you to sit your child in a small chair or sit them on your knee. An audiologist will sit in front of you with toys such as some pegs and a board. It's important that you just sit back and relax so that you don't give any clues to your child. Some loud bleeps and tones will then be played through a speaker or some headphones which will be lying on the table. We will then condition your child to put the peg on the board when they hear the sound. Your child will be rewarded with lots of smiles and praise.

When the child has grasped the game the loud tones and bleeps will be turned down and the headphones will be placed over your child's ears. If your child is older and able to, we will ask them to press a button when they hear a sound. We will then be able to obtain information about your child's hearing by testing the ears separately.

When testing with headphones, the sounds go into the ear canal, through the middle ear to reach the inner ear. This is known as air conduction testing. Air conduction testing looks at how the whole hearing system responds to sound.

### **Bone Conductor**

After we have tested with the headphones it may be necessary to test your child's ears using another device called a bone conductor. This bone conductor is placed behind the ear.

As your child did with the headphones, they will be asked to put a peg on the board when they hear a sound. When testing with the bone conductor, this sends sounds directly to the inner ear. Sounds are sent through the

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bones of the head and do not pass through the eardrum or the middle ear. This is called bone conduction testing.

Your appointment time will be around 30 to 45 minutes and play audiometry may take up to 20 minutes depending on the child's concentration. The hearing test is painless and does not have any side effects. The test does not hurt and is not uncomfortable. It can be used for children aged from 2½ years and can also be used to test older children who are unable to take part in other forms of testing.

### **After testing**

#### **Hearing test shows satisfactory hearing**

If the hearing test shows that your child has satisfactory hearing, then you will be discharged from the Audiology Clinic, and we will write a letter to you and the health professional that referred you explaining the test results. You can always ask for another referral from your GP if you suspect your child has hearing problems in the future.

#### **Hearing test shows reduced hearing**

If the hearing test shows that your child's hearing is reduced, we will arrange a repeat test at a later date.

At the repeat test, if there are ongoing problems with your child's hearing due to middle ear congestion, we will then discuss a referral to the Ear, Nose and Throat (ENT) Consultant for a medical opinion.

For non-middle ear congestion hearing issues, we will discuss a future management plan and further testing if necessary.

### **Further information**

If you need any further information, please contact the Centre on 024 7696 6444 or [audiology.correspondence@uhcw.nhs.uk](mailto:audiology.correspondence@uhcw.nhs.uk)

The Trust has access to interpreting and translation services. If you need this information in another language or format, please contact 024 7696 6444 and we will do our best to meet your needs.

## Patient Information

This Trust operates a smoke free policy.

### Did we get it right?

We would like you to tell us what you think about our services. This helps us make further improvements and recognise members of staff who provide a good service.

Have your say. Scan the QR code or visit:

[www.uhcw.nhs.uk/feedback](http://www.uhcw.nhs.uk/feedback)



#### Document History

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