

Baha[®]

Your child's
natural pathway
to hearing

Hear now. And always



Cochlear[™]



Discovering the sounds
they have been missing...

Rerouting sound - naturally

For a child with hearing loss, the journey towards better hearing starts with the right hearing solution. The question is: which type is best? The solution must be tailor-made to match your child's hearing abilities.

We hear sound naturally in two ways: via air conduction and bone conduction. Air conduction hearing devices amplify sound waves and direct them down the outer ear, via the ear canal to the middle ear and then to the inner ear. Bone conduction devices send the sound vibrations directly to the inner ear through the bone.

In cases where the middle ear is blocked or damaged, or where only one ear is functional, a Baha® bone conduction system is more effective than air conduction devices. Instead of trying to send sound through the damaged area, the Baha System reroutes it directly through the bone, naturally stimulating the inner ear.

If your child has middle ear problems or can only hear with one ear, they may be an ideal candidate for a Baha.

Baha[®] - enriching life with the gift of sound!

Human beings have five senses; taste, smell, sight, touch and hearing, all of which help us to experience the world around us. Babies are born ready to receive information through these senses. The more information the brain receives, the better the baby can understand and participate in the surrounding world.

Through hearing we develop our language and communication skills: we can hear people speak, learn to read, appreciate music and be warned of approaching danger. A hearing loss does not have to compromise these skills as long as hearing amplification is provided early. With modern testing technologies it is possible to identify hearing loss within days of birth.

With the Baha System, your child will have access to more of the sounds they need to hear in order to learn and develop. For instance, the more clearly they can hear speech sounds, the easier it will be for them to develop verbal language.

Additionally the more details they can hear in their environment, the safer and more confident they will feel. With a Baha, your child will be able to:

- Hear, understand and participate more at school
- Feel more in touch with their surroundings
- Blend in with a more discreet hearing solution
- Avoid soreness and discomfort from ear molds and hearing aids on a headband
- Be active without having to worry about excessive feedback.

Communication milestones

These milestones outline the behaviors that may be expected of a child at various stages. The learning processes are, however, individual and can vary several months from one child to another. If you have any concern about your child's development, we suggest you turn to your family doctor for advice.

Birth to 6 months

Newborns move or widen their eyes as a reaction to loud sounds. They also vocalize pleasure and displeasure through laughing, giggling and crying.

6–12 months

Babies will refine listening skills and should look for the sources of common sounds around the home. The first "speech like" babbling starts and they will understand simple words like "Mommy," "Daddy" and "no".

1 year

At the age of 1 year they try to imitate simple words and point to objects, pictures, and family members, trying to pronounce their first words.

1½ years

At this age children should understand simple verbs such as "eat", "sleep" and have a spoken vocabulary of between 20 and 50 words.

2 years

Children will use everyday words heard at home and pronounce simple two word sentences. Most speech is becoming understandable to adults other than their parents. At this age many children learn their first songs and enjoy listening to music.

3 years

This is the age of use and understanding of simple verbs, prepositions, adjectives and pronouns. Children should be using complete sentences some of the time and should also be able to accurately locate the source of a sound.

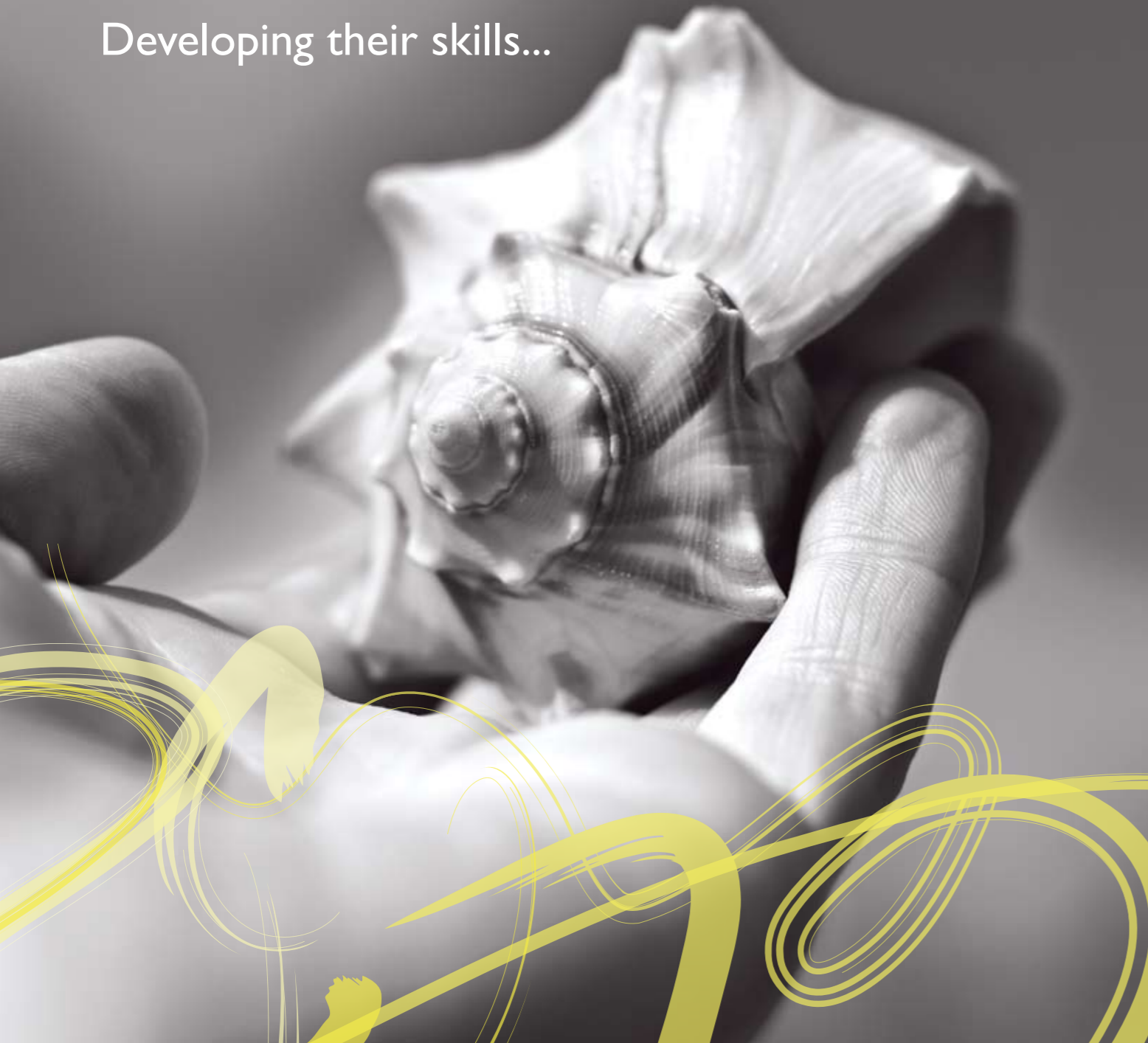
4–5 years

The child's speech is now understandable but longer or more complex words will frequently be mispronounced. Vocabulary increases rapidly and most children this age can carry on a conversation if the vocabulary is within their experience. All speech sounds should be clear and understandable by the end of the pre-school period.

Scientific research shows that the first six months are critical to language development – long before babies can talk, they are listening to spoken language. (Yoshinaga-Itano, C., Sedey, A.L., Coulter, D.K. and Mehler, A.L.: Language of Early- and Later-identified Children With Hearing Loss. Pediatrics Vol. 102, No. 5:1161-71, November 1998.)



Developing their skills...



Good vibrations



"I used to ask people constantly to repeat themselves, but now with my Baha® this is no longer a problem. It helps me most at school. I can recognize voices better, even if I do not see the person."

Seraphine Schutz

"I used to ask people constantly to repeat themselves, but now with my Baha this is no longer a problem."

"We have seen a huge difference in the way Marije responds to us."

"We have seen a huge difference in the way Marije responds to us and to her surroundings since she has been wearing the Baha® Softband. When she sees the Softband in the morning there is often a big and wonderful smile and sometimes when we take it off she starts protesting!"

Marije Meyer's mother



"When they tried on a Baha® Softband, her face lit up. She couldn't believe that she was hearing. So we talked to Alyssa about the Baha surgery. Compared to other surgical procedures, the Baha surgery was not that major. It's a quality of life issue. She can hear like we all hear."

Alyssa Marin's parents



"It's a quality of life issue. She can hear like we all hear."

So what is the Baha® System?

The Baha® System consists of a high-performance sound processor, which snaps on to a titanium implant located behind the ear. This implant completely integrates with the skull bone thanks to a process known as osseointegration.

The Baha sound processor captures sound vibrations and directs them through the implant, where the body's natural ability to conduct sound via bone carries the sound to the inner ear.

Osseointegration has been used for reconstructive surgery, dental implants and Baha systems with great success for more than thirty years.



Baha® Softband - for smaller children

Children who are not yet ready for an implant* can enjoy hearing sounds with a Baha through the Baha Softband. This consists of a soft elastic headband with a plastic snap connector that holds the Baha sound processor in place.

The band is fit very easily with Velcro® and can be adjusted so the sound processor is not always in the same position. This helps to avoid discomfort and can be very useful when your child is in a car seat or stroller.

Your hearing care professional will be able to tell you whether the Baha Softband or the Baha implant would be the most appropriate for your child.

* In the US, the Baha implant is cleared for use in children aged five years and older.

A system you can trust

Worn by thousands of children and adults worldwide, the Baha® System is a well-proven, clinically tested and documented hearing care system.

With a Baha at their side – and with the support of loving parents and caring specialists – children will be able to learn about the world and discover their talents.

As one of the largest researchers of hearing technology worldwide, Cochlear™ is committed to ensuring that no matter what stage of development your child is in, there will always be a Baha sound processor to meet their needs. Moreover, they will be able to benefit from a lifetime commitment to recipient support and ongoing technological advances.



Enjoying life's little pleasures...



The Baha System
can make all the
difference...

Getting a Baha[®]

Now that you know what a Baha[®] can do, how do you go about getting one for your child?

Ask your hearing care professional about the Baha System. If they consider your child to be a good candidate for a Baha implant, they will put you in touch with a qualified surgeon. Otherwise, they will fit your child with a Baha[®] Softband, which holds the processor gently in place.

The procedure

The implant surgery is a simple procedure, so your child can resume their normal routine within a few days. Unlike some kinds of ear surgery, there is no risk of further damage to their hearing.

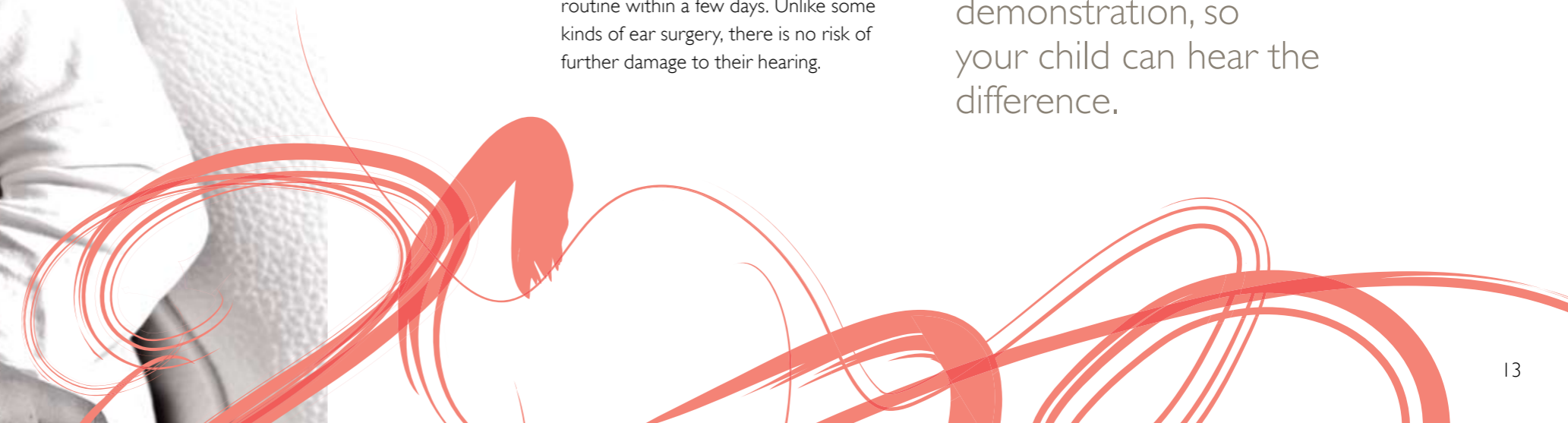
A new world of sound

After the implant has had time to integrate with the surrounding bone, your hearing care professional will fit the Baha sound processor and adjust the settings to suit your child's needs.

Wear and forget about it!

Aside from preliminary appointments and routine checkups, the only aftercare needed is to keep the implant area clean and the sound processor dry.

Ask your hearing care professional for a Baha demonstration, so your child can hear the difference.





Accessories to match

Tailor-made solutions

There are three options for meeting your child's needs.

Baha Divino® Better hearing in noise

The Baha Divino® uses advanced digital sound processing to shape the signal to fit your child's needs. It has a built-in directional microphone to help them focus better – especially in noisy environments such as classrooms.



Baha Divino and Baha Intenso are available in four colors: black, brown, blonde and silver-grey.

Baha Intenso™ Power and discretion in one

For greater hearing losses and when more power is required, Baha Intenso™ is a logical choice. It is discreet, powerful and comfortable. The advanced digital technology provides more of the interesting details of sound.

Baha® Cordelle II Body worn super power

For more severe hearing losses, the body-worn Baha Cordelle II is the strongest member of the Baha family. With this device, your child will hear more than ever, with less feedback and distortion relative to conventional hearing aids.



* Not to scale. Baha Cordelle II is available in three colors: black, beige and grey.

Not all products are available in all markets. Contact your local Cochlear™ representative for information.



Baha® Softband is available in eight styles: beige, black, baby blue, royal blue, pink, red, space and teddy bear designs. All designs are 540 mm in length, except the beige & black, which are 670 mm.

Baha® Softband

Until children are ready for a Baha implant, they can wear a colorful Baha® Softband. These can be easily adjusted to fit the child's head with Velcro®. The Baha Softband gently presses the Baha sound processor against the skull so the sound can be transmitted through the skull bone to the functioning inner ear.

Audio adaptor

To hear with direct input from electronic equipment such as stereos, TVs, and MP3 players.

Products are not actual size



Microlink FM-receiver

To further improve speech understanding in noise by connection to FM systems, especially in schools.

Contact: www.phonak.com



Telecoil unit*

To hear more clearly over the phone, the Telecoil unit sends the signal directly to a Baha.

* Available for the headworn devices only. The body-worn Baha Cordelle II has a built-in telecoil unit for convenience.



The Cochlear™ Promise

As a global leader in hearing solutions, Cochlear is dedicated to bringing the gift of sound to people all over the world. With our hearing systems, Cochlear has reconnected over 140,000 people to their families, friends and communities in more than 70 countries.

The Baha System provides a natural pathway to hearing and is a simple and effective hearing solution for many types of hearing loss. With this pioneering system, more people can experience the wonderful world of sound.

For patients receiving any Cochlear hearing system, our commitment is that for the rest of your life we will be here to support you. Hear now. And always.

Cochlear Americas

13059 East Peakview Avenue
Centennial, CO 80111
USA

Toll Free : | 800 523 5798
Tel: | 303 790 9010
Fax: | 303 792 9025

Cochlear Canada Inc

2500-120 Adelaide Street West
Toronto, ON M5H 1T1
Canada

Tel: | 416 972 5082
Fax: | 416 972 5083

www.cochlear.com

Baha and Baha Divino are registered trademarks, and
Baha Intenso is a trademark of Cochlear Bone Anchored Solutions AB.
Cochlear and the elliptical logo are trademarks of Cochlear Limited.
© 2008 Cochlear Bone Anchored Solutions