



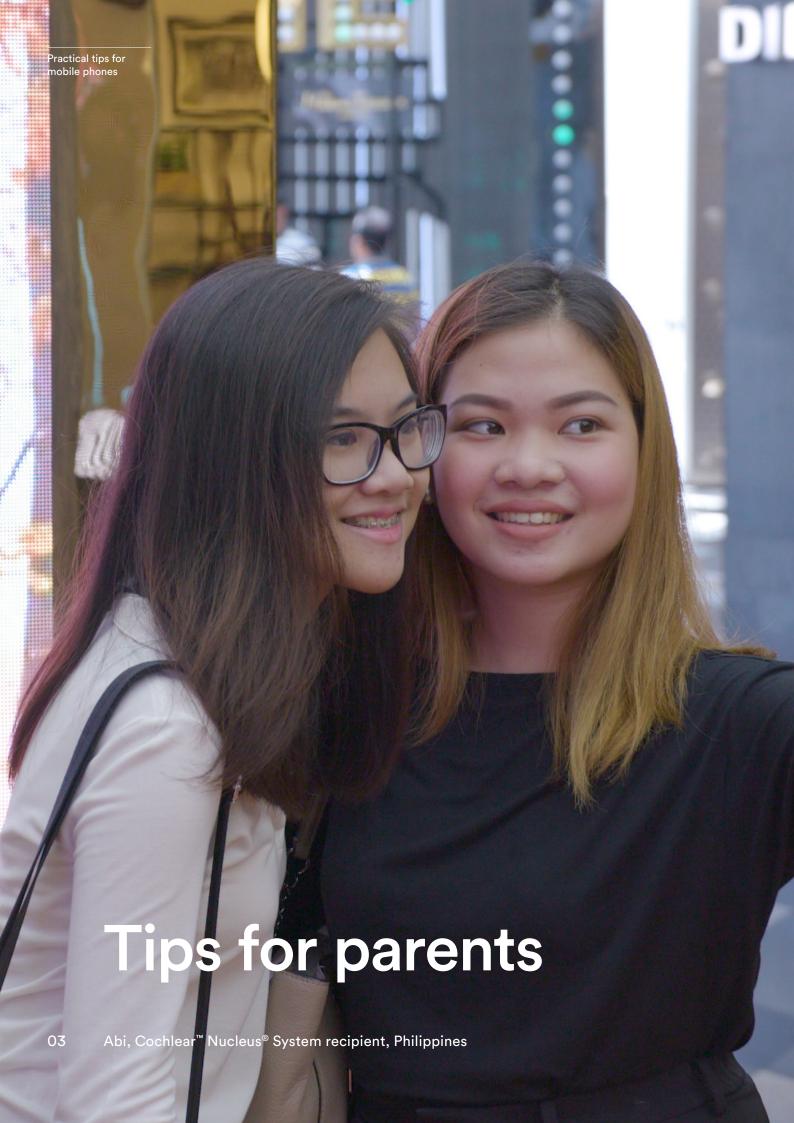
Connectedness and the desire to belong is a fundamental human need. Renowned psychologist, Abraham Maslow's theory on the Hierarchy of Needs suggests that humans possess a core need to belong and feel acceptance among social groups^[1]. He goes on further to say that an absence of connectedness can negatively impact mental wellbeing and lead to feelings of loneliness and social anxiety.

Modern research has also surfaced a connection between social relationships and physical health. Stating that social connection is a biological imperative, and without social ties, distress emerges and health fails^[2].

Hearing loss can make teens feel lonely in a social world. However, in an increasingly digitally connected world, the way we interact with each other has evolved over time and has made communication more accessible for teenagers with hearing loss.

According to research conducted by the Pew Research Centre, on *Teens, Technology and Friendships*, 88% of teens text their friends and texting is the dominant way they connect with each other^[3]. In addition to texting, teenagers are incorporating a number of other devices, communication platforms and online spaces into their interaction with friends e.g. Social media, video chat, phone calls and video games^[3]. However, an interesting finding of the research was that, when teenagers are speaking to their closest friends, phone calls continue to be the second most popular way they connect.

We share some practical tips on mobile phone usage and some simple rehab tips to help your teen optimise their hearing on the phone or during video calls. An important thing to remember before starting these exercises is that factors such as age of cochlear implantation, auditory nerve function and the quality of auditory input over time can influence success in listening over the phone. We recommend speaking with your child's hearing healthcare professional or clinical team for a more tailored rehabilitation plan.



Practical tips for mobile phones

Rehab at home

For your child to be able to hear their best over the phone, encourage them to wear their sound processor as much as possible. It is also important to follow the guidance of your clinical team and continue doing hearing rehab exercises with your child. Ten minutes of hearing rehab a day can help with speech understanding and comprehension. If there are particular speech sounds that your child has difficulty with, focus on these during exercises. Refer to the Raising Confident Teens: Communication Rehab Guide for some exercises you can do together.

2 Check phone compatibility

If and when you decide to get a mobile phone for your child is your decision alone. When it comes to phone choice, there are an overwhelming number of choices. If you decide a smartphone is the right type for your child, it is important that you consider the sound processor your child is wearing and phone compatibility.

Direct audio streaming from the phone to the sound processor is the best way to optimise speech clarity on phone calls. If your child's sound processor technology permits, we recommend directly streaming phone and video audio using a compatible* Apple or Android device. To view the list of compatible devices, visit www.cochlear.com/apps/en/sound-processor-and-app/compatibility

If the phone you select is not compatible with your child's sound processor technology, direct wireless streaming can also be achieved with the Mini Mic 2+ or Phone clip. Visit the Device Support page on cochlear.com for instructions on how to pair your device.

Speak to your child's hearing healthcare professional

Before your child gets started with using their mobile phone, it's a good idea to speak with your child's hearing healthcare professional. Speak to them about how to optimise your child's technology to give them the best chance of success using the phone. For example, you can discuss enabling ForwardFocus** and setting the mixing ratio when they are using direct streaming or using a mini mic for calls.

Practical tips for mobile phones

Put clear communication into practice

When you are talking to your child over the phone, remember to use good phone technique and speak clearly. For example, speak directly into the mouthpiece and speak naturally at a moderate speed. If your child has difficulty understanding you, try rephrasing the sentence instead of just repeating what you just said.

Or, if your child's listening isn't at a level that will allow them to understand a phone signal, try using video calls.

Your child may find the visual cues provided through video calls more beneficial. Remember to practice clear communication in video calls, ensure that you are facing the camera when speaking and that there is good lighting for your child to see your face during the call.

5 Be mindful of your environment

When you are calling your child, remember to consider your environment. Background noise can make it difficult to understand phone conversations. Calling from a café or using handsfree whilst in the car will make it harder for your child to hear your voice. Try moving to a quieter area or tell your child you will call them back when you have found a quieter space to talk.

6 Teach your child to advocate

Teach your child the importance of self-advocacy and give them tips on how to put this into practice. Show them how to remind friends and family about the phone communication strategies that make listening easier for them. Get them comfortable with telling conversational partners if they are having trouble hearing them, to speak slowly and clearly, and to advise when there is too much background noise.





Get comfortable using the phone

As you enter your teen years, you may find yourself developing new friendships and finding new ways to connect with others. When you first start using the phone, conversations might feel a bit awkward. Getting comfortable with speaking on the phone can take some time. It is completely normal to feel a bit nervous about using the phone for the first time, especially when you have hearing loss. But working on your hearing and listening rehab can go a long way toward building on the skills you already have.

Below are rehab exercises you can do in the comfort of your room or home environment, and some practical tips to help you get started with phone rehab.

Practical Advice to get you started

Be kind to yourself

Listening practise can take time and patience to see improvements. Everyone is different, so start slow, take breaks if you need to and go at a pace that suits you.

2 Choose a quiet place

When you first start off with phone listening practise, it is important to choose a quiet environment. We recommend somewhere like your bedroom where you can close the door, rather than a family living area or the kitchen. It will be easier to focus on listening to speech in a quiet room without echo.

3 Practise regularly

Listening practise should be broken up into short, but frequent sessions. We recommend practising for around 10 - 15 minutes per day, five days a week. A good idea is to schedule this in before or after you have finished your school homework. We have shared some phone exercises you can do below. Alternate the days when you do rehab with a partner and when you do independent rehab. Overall, the more you devote to phone rehab, the better!

4 Optimise your technology

Check that you are using the sound processor program and setting you hear best with before starting. If you are using external speakers for your listening exercises, set the volume at a moderate level and try not to use built-in laptop speakers – they tend to distort sound which will affect the quality and clarity of the speech.

Another tip is to switch on ForwardFocus* if you aren't using direct streaming. We recommend speaking with your hearing healthcare professional about enabling ForwardFocus, as it may improve your listening experience by reducing the background noise behind you. This can be particularly helpful during video calls.





5 Find a Rehab Partner

You will get the best results from phone rehab when you work with a supportive family member or close friend. This is especially important when you are doing the practise phone call exercises. When you are first getting started with using the phone, we recommend that you work with someone whose voice you are very familiar with.

You could even try developing a script that you can role play with your rehab partner. This may be a good way to ease into things and help practise your listening.

6 Set and revisit listening goals

You can track your progress by setting yourself some listening goals. You can set realistic goals with the help of your hearing healthcare professional. But remember not to put too much pressure on yourself, your goals can always be revisited over time and adapted.

Be an advocate and educate others

Don't be afraid to remind family and friends about the phone communication strategies that will make listening easier for you. For example, request that they speak clearly and at a moderate pace. If they are taking the call in an environment with a lot of background noise, ask if they can move to a quieter area or re-schedule the call to a time when they may be in a quieter setting. For video calls, encourage communication partners to face the camera so you get extra visual cues and to use headphones with a microphone, so their voice sounds clearer.

Phone rehab exercises

Before you get started on phone rehab it is important to involve your family and get their support. The encouragement of family members can have a really positive impact on your progress, and they can help you set up an appointment to speak with your hearing healthcare professional. Your hearing healthcare professional will be able to help you set personalised goals.

We have developed some simple exercises that you can follow to help make you feel more comfortable communicating with others over the phone. When it comes to getting used to speaking over the phone, it's important to start with the basics, go at a pace that you are comfortable with and try to not overcomplicate things.

Develop a rehab plan

Before you get started on your phone rehab journey, speak to your audiologist or clinician. They will help determine the best rehab plan for you. The steps below are just ideas on how to get started.

Practise with a familiar speaker

When you first get started with phone rehab, start by practising at home with a family member that lives with you. Their voice will be most familiar to you and will make it easier for you to recognise what they are saying over the phone. Arrange to have 5-minute calls with your rehab partner 2-3 times a week and choose a different topic to talk about each time. This will expose you to a wider variety of words and help expand your vocabulary. Remember to take the calls in different rooms of the house.

Video call with a familiar speaker

Video calls now play a big role in how we communicate. So, it's a good idea to explore making calls using video platforms and discovering which one works best for you i.e Whatsapp or Skype. Again, start by practising these calls with a familiar speaker. You may find that conversations using video calls are a bit easier to follow because of the additional information that comes from visual cues.

Check if the video call platform that you are using has options for closed captions. This will be especially helpful when you are first getting started, but when you are feeling a bit more confident, you can try switching these off.

Auditory rehab with apps and websites

Another way to build your confidence with using the phone is to work on your auditory rehab. Try doing independent auditory rehab on the days that you aren't practising phone or video calls with your rehab partner. We have listed a few helpful apps and websites at the bottom of this guide to help you get started. Remember, 10 -15 minutes a day is all you need to do!

Vlogs, Audiobooks and Tiktok

When you start to get more confident with doing phone or video calls with family members, it's time to move onto understanding less familiar speakers. A great way to get started is to listen to vlogs of your favourite YouTubers and audiobooks, as the content focuses mostly on speech without background music. For more of a challenge you can watch clips on Instagram or Tiktok. When you are listening to the speakers, listen carefully and focus on distinguishing accents, recognising shifts in tone and pace of speaking.

Phone call with less familiar speakers i.e friends.

Once you have done independent auditory rehab and feel ready for the next challenge, you can arrange to have a call with a slightly less familiar speaker. If you can understand your friends without seeing their faces, you are ready to try calling one of your friends from school. If you've never tried this before, it may take a bit of practise. This is also a good opportunity to practise your self-advocacy skills – Gently remind friends to speak up or slow down their speech if you are having trouble understanding what they are saying.

Call a business with a simple enquiry

A great way to build confidence when speaking to new people on the phone, is to start by asking a simple question that you may already know the answer to. When you are the one making an inquiry, you are in control of the call and will have a good idea of what the response may be. For example, try calling a shop and asking them what their opening hours are. Before making the call, you can practise with your rehab partner at home. For example, "Hello, can you please tell me what time your store closes today?".

Order something over the phone

If you are feeling brave, why not try ordering something over the phone. Phone orders usually tend to follow a predictable pattern, which can help you prepare and anticipate what will be said. A good one to start with is ordering a pizza, that way you can also reward yourself with a delicious meal after you've made your call! Speak to your family beforehand to get confirmation that it is okay to order pizza. Write down your pizza order before the call and practise what you will say. You can prepare what your greeting will be, what your order is, how you will be paying and if you would like the pizza to be delivered. Remember, the worst that will happen is that you get the wrong pizza!

Celebrate your wins (even the small ones)

Taking responsibility for your listening and hearing practise is a big step and using the phone for the first time can be a bit nerve wracking for everyone. So, remember to take a moment and give yourself a pat on the back. You're doing a great job!

Helpful resources

Below are a list of websites and apps to help with phone rehab and aural training.

Apps



1. Hearoes

An interactive auditory training platform developed by audiologists and speech pathologists. Designed to help hearing impaired recipients gain confidence identifying speech and environmental sounds. Encourages 'play-based' learning to help with identifying words, vowel and consonant sounds and with sentence comprehension.



2. Hear Coach

App for word recognitions developed by Starkey Laboratories. This app uses three different games to improve speech understanding in the presence of background noise.



3. TOEIC

Whilst this App is especially designed for those learning English as a second language, the exercises and content is also beneficial for native English speakers with hearing loss. There are a multitude of exercises that work on language comprehension and pronunciation.

Websites

Angel Sound™

An interactive auditory training and hearing program. You gain practice in discriminating and identifying sounds and speech components through a series of self-paced modules. The level of difficulty is automatically adjusted to match your developing listening skills.

2. ESL Lab

A series of short audio stories on a wide variety of topics. Your comprehension will be tested via a series of questions and told where you answered correctly and incorrectly. Includes listening exercises and vocabulary activities. The tutorials are divided into 'easy', 'medium' and difficult content.

Visit cochlear.com for additional support information or contact your local customer service or hearing healthcare team.

Cochlear Family

Hear now. And always

Cochlear is dedicated to helping people with moderate to profound hearing loss experience a world full of hearing. As the global leader in implantable hearing solutions, we have provided more than 700,000 devices and helped people of all ages to hear and connect with life's opportunities.

We aim to give people the best lifelong hearing experience and access to next generation technologies. We collaborate with leading clinical, research and support networks to advance hearing science and improve care.

That's why more people choose Cochlear than any other hearing implant company.

- The Cochlear Nucleus Smart App is available on App Store and Google Play. For compatibility information visit www.cochlear.com/compatibility
- ** ForwardFocus is a clinician-enabled, user-controlled feature.

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Please seek advice from your health professional about treatments for hearing loss. Outcomes may vary, and your health professional will advise you about the factors which could affect your outcome. Always follow the directions for use. Not all products are available in all countries. Please contact your local Cochlear representative for product information.

Views expressed are those of the individual. Consult your health professional to determine if you are a candidate for Cochlear technology.

For information regarding the compatibility of Cochlear's Sound Processors with Apple or Android devices, visit www.cochlear.com/compatibility

ACE, Advance Off-Stylet, AOS, Ardium, AutoNRT, Autosensitivity, Baha, Baha SoftWear, BCDrive, Beam, Bring Back the Beat, Button, Carina, Cochlear, 科利耳, コクレア, 코클리어, Cochlear SoftWear, Contour, コントゥア, Contour Advance, Custom Sound, DermaLock, Freedom, Hear now. And always, Hugfit, Human Design, Hybrid, Invisible Hearing, Kanso, LowPro, MET, MP3000, myCochlear, mySmartSound, NRT, Nucleus,Osia, Outcome Focused Fitting, Off-Stylet, Piezo Power, Profile, Slimline, SmartSound, Softip, SoundArc, SoundBand, True Wireless, the elliptical logo, Vistafix, Whisper, WindShield and Xidium are either trademarks or registered trademarks of the Cochlear group of companies. Android is a trademark of Google LLC. Google Play and the Google Play logo are trademarks of Google LLC. Apple is trademark of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc., registered in the U.S. and other countries. ESL Lab is a trademark of Randall Davis. All rights reserved. Angel Sound is a trademark of the Emily Fu Foundation. Hear Coach is trademark of Starkey Laboratories, Inc. All rights reserved. TOEIC is a registered trademark of Educational Testing Service (ETS) in the United States and other countries.