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The Science Supporting Sky Lumity

Presenter: Stacy Michels, MA

Well, hello, everyone. Thank you for joining this Monday, either morning or afternoon, depending on where you are joining from. My name is Stacey Michaels, and I am one of the Phonak account managers supporting children's hospitals and schools. And today I'm going to be discussing our complete pediatric product line, including sky Lumity. But most importantly, some of the science that is supporting skylumity.

Some updates to some of the studies that we have been conducting. Today's learning objectives. After this course, everyone will be able to list the features of sky Lumity. You will also be able to describe the benefits of dynamic noise cancellation and tap control. And then also you will be able to explain when you might utilize tap control.

And this would be more so focused on our pediatric population.

So I'm really proud to celebrate Phonak. Recently, we reached our 50th anniversary in the pediatric hearing aid industry. And during these 50 years, we've created far more than just hearing aids. So we've created an entire pediatric ecosystem which includes 25 years of collaboration with key opinion leaders in the pediatric hearing industry. We have hearing aids that are designed specifically with children in mind, and research that's conducted with children to show the benefit of the features of this population.

And that will definitely be exemplified today. This research helps us to determine our junior mode defaults, to provide a dedicated pediatric fitting workflow, and then not to forget our ten years of Roger connectivity. And last but not least, we like to be able to provide resources for parents and teens.

So this morning, I'd like to go over the full lumity portfolio for pediatrics. And our portfolio is based on that 50 years of commitment. And we provide the most advanced technology, really to maximize speech understanding that Phonak has offered to children up to this date, alongside with our proven

Roger solution connectivity. We all know that's very important, that helps kids stay connected in a world full of technology. And then our solutions really are designed for that young user in mind.

So when working with children with hearing loss, it's vital to have that solution for virtually any child you might encounter. Skylumity hearing aids combine our most advanced smart speech technology with universal connectivity and a portfolio of solutions to address the needs of children with hearing loss of all ages, inside and outside of that classroom. Cause that's where they spend most of their time, right? So, Skylumity was recently named the winner of Hearing Technology Innovator 2023 award in the category BTE hearing aid. So I do like to have that little shout out for our award.

I. All right, so some of you may already be fitting Skylumity it's been out for a while, but for those of you that have not, this will be a good introduction to Skylumity and some of those smart speech technology features. For those of you that have been fitting Skylumity, this will be just a good update in regards to that smart speech technology, the relationship with pediatrics, and some of our updated research studies. So Skylumity really does have that smart speech technology. With the new advanced features, we are more focused with the Beamformer and stereo Zoom 2.0.

We have our side and back focus with speech sensor. We've got dynamic noise cancellation that allows the individual to individually adjust based on their noise environment. We have motion sensor hearing, and then last but not least, we have that roger direct. So all of that falls under the smart speech technology umbrella.

We also have cross lumity that is compatible with our Skylumity PR. So cross lumity rechargeable is a great companion to that Skylumity PR. If you have a child that is a candidate for either a cross or a bi crosse setup, tap control. That is a feature that allows for start and stop streaming, answering or ending a phone call, or even activating voice assistant. So towards the end of this, we'll talk about how you can use tap control, maybe with some of your older, older pediatric patients.

And then we do have universal Bluetooth connectivity. So I think this is important, especially when we talk about pediatrics and their connectivity, not only at home, but also in the classroom. We have an updated myphonak junior app, as well as wearing time and remote support.

And then, as most of you probably already know, we're going to keep with that pediatric portfolio robust and reliable housing. We've got lots of cool colors to choose from, tamper proofing, which is very important for those younger ones. We have that led visual indicator, and then, like I said, that pediatric workflow in target. So I know these are the very basics, but these are always just good reminders to let you know that we've got a lot of fun colors, not only for the body of the hearing aid, but also for the tone hooks. And then if you have that option, to be able to give them a colored ear mold, what a great way for them to express their individuality, right?

So they can put those color combos together as a quick reminder. We know that our kids are in wet and wild environments, especially during the summertime. So depending on where you live, it may be pretty hot right now, or if you're getting crazy rainstorms. These kids like to be outside, and so we have that IP 68 rating to really make sure that you are feeling comfortable talking to your families, those parents, those kids, that their hearing aids are going to be protected in those environments. And then the skylumity M sp and up have the tamper proof battery doors and also the tamper proof tone hooks.

So the battery doors require that small black tool that you've been traditionally using to open up that tamper proof door. And then as a reminder, all models have that tamper proof ear hook option. So all of the sky Lumity devices. A quick note about our charger. It is the charger combi bte two that is compatible with a skylumity PR.

And that combi Bte two charger does have that improved reliability. We've included a booster inside of that charger for better voltage distribution. So you can also order the power pack for charging on the

go. So that is a great combination, especially for those kids that might have after school activities or maybe a long weekend away from home. The expected battery life of the skylumity PR is 16 hours.

So this is just based on the assumption that we're going to have 10 hours of streaming, whether it's Roger or maybe a tv connector, and then 6 hours of autosense. So that 10 hours of Roger use throughout their school day. These kids should be able to get through their school day without any problems. Little caveat. Yeah, they have to charge their hearing aid the night before.

So always a great reminder for those parents during your hearing aid consultation. The other three models that are available are the sci up, the ScyM, and the Sp. So the up battery life is about 160 hours. So remember, that is a disposable battery. The Sky M is about 107 hours and the SP is about 143 hours.

So keeping in mind those are disposable batteries. Now, those can be influenced, the battery life is influenced by the type of battery you're using, maybe the degree of hearing loss, how much output is needed, and then obviously as well, how much connectivity and streaming is being utilized by that child as well. Okay, so that's just the basic, you know, reminders about SC I specifically and the pediatric features. Let's talk about our speech understanding and technology that goes into the hearing aid itself. So, Autosense Skyos has advanced over time.

We now have Autosense Skyos 5.0. But you may be asking what's different with this updated operating system. Well, it now includes the smart speech technology. So there are several features that are part of that smart speech technology. And you can see all of those listed here on the screen.

I can imagine that by now most of you are very familiar with those. But let's take a look at the which features are within skylumity, especially when it comes to pediatrics. So our 50 level technology, we did add wind block as one of those features. So that is great for those kids that are out riding their bikes,

they're riding around with their, running around with their friends, or even walking to school, they can have that improved listening experience with reduced annoyance from the wind noise. Now, these features came out with the launch of audio Lumity, and studies were being conducted to ensure that these features were appropriate for our youngest listeners.

So I'm going to highlight some of those recent studies pertaining specifically to speech enhancer and dynamic noise cancellation.

So, first, let's think about why maximizing speech understanding is so important for our children. So we need to provide a solution that has the potential to help kids with hearing loss get through their day. A couple of studies we'll reference here, there was one by Hornsby et al. That showed children with hearing loss experience greater levels of fatigue compared to those children with normal hearing. And researchers attributed this fatigue to the difficulties that children will experience in noisy environments.

Additionally, a study from Cochley and Skully showed that almost 90% of a child's day in elementary school is spent listening to speech in the presence of noise.

So, to help with those challenges of a noisy day, children need an operating system that is fast enough to adjust to their environments around them and that it's designed to classify the unique environments found in a child's day. So, with Autosun, Skyos Phonak provides hearing aids that offer over 200 unique setting combinations. The hearing aid is scanning the environment 700 times per second, and that is reflective of the combination that we're able to make with this machine learning. So, machine learning is Autosense Skyos 5.0. It's able to provide greater listening comfort and by experiencing less fatigue, that this gives children the potential to access more resources, or, I'm sorry, resources for learning, for physical activity and socializing.

So, obviously, very, very important. Now, we're going to start out with something that, a feature that helps in quiet. So, speech enhancer, okay, so speech enhancer is an adaptive feature designed to provide up to ten decibels more gain for the peaks of soft speech and speech from a distance in quiet situations. This is going to result in less listening effort in a quiet listening environment, and then also soft speech. So those parameters need to be met in order for a speech enhancer to be activated.

Now, just as a quick note, this feature is available in the 90 level technology for all of our lumity devices. Let's look at speech enhancer a little bit closer. We can assume that children would benefit from speech enhancer in their different listening environments, of course. But if we think about young children where incidental learning or even overhearing speech is very important, for example, if a mother is speaking to that young one's sibling from across the room, child with normal hearing would be able to overhear that. But a child with hearing loss may not necessarily be able to even hear that their parent is talking to their sibling, and that information for that young child is important.

They need to be able to overhear incidental learning. Or what about when the child gets a little bit older and they're sharing secrets between their friends, or maybe even comments from classmates sitting further away during quiet time in the classroom? We know that access to speech influences the language outcomes in children with hearing loss. So even though we could assume that speech enhancer is going to help children understand more soft speech, we wanted to make sure that that, in fact, was the case. So Phonak collaborated with hearts for hearing, and a study was done with speech enhancer.

These results came out in 2022. And this we were able then to determine the default setting for speech enhancer. So if we take a quick look at this slide, we can see that the range of hearing loss and the ages of those participants are laid out here. So there were two separate groups, and you can see there were five to eight year olds, and then there were nine to twelve year olds. So the hearing aids that were

used were either the Naida paradise or the audio paradise hearing aids.

So those were available at the time of this study. And then the CNC words were used. Presentation levels were at two different soft speech levels, so 40 and 50 decibels. And then the conditions were we're going to have speech enhancer off, and then we're going to have speech enhancer on. And we have it at two different settings, both moderate and strong.

And those are things that you can change in target if you need to. So that's just the basic overall view of the study of the participants. I'm going to look at the results here now. So if we take a look at the results for the CNC word recognition, we can see that both the 40 decibels input and the 50 decibels input, children in both age groups performed significantly better with speech enhancer on versus speech enhancer off. Okay, so if we look at the graph.

Hopefully it's clear on your screen, you can see that the very light gray bar is when speech enhancer was turned off. Purple is when it's turned on at a moderate level. And then green represents speech enhancer on at a strong level. So we see a significant difference between on versus off, but then there's not a huge significant difference between moderate and strong. So, one we can see, yes, children are understanding more soft speech with it on versus off, but then also we know that we can set this at a moderate level.

Okay, so we're not going to go all the way strong. We're just going to go ahead and set it at moderate as a default setting. Okay. If you want more details on this study, please feel free to go to our Phonak website and look under evidence for a bit more details there. So we felt very good about these results.

Now, if we move on to kind of the opposite end, we're going to look at speech in noise, and that's with dynamic noise cancellation. So this is another feature that is new to Skye. So when the conditions are met, this feature automatically reduces background noise from the back and the sides, which allows for

an improved signal to noise ratio of about four decibels when in a noisy environment. So this is going to allow that child or individual to be able to hear speech in front of them with greater ease, again reducing that listening effort. Okay, so this dynamic noise canceler is a spatial noise canceler.

So it works in combination with a directional beam former, really to accomplish that improved SNR. As a note, this feature is available in the 70 and 90 level lumity devices. All right, so then the question becomes, do children with hearing loss really need noise reduction? So we know from the study by Hornsby that kids with hearing loss experience greater levels of fatigue than children with normal hearing. And they attribute this fatigue to the difficulties they experience in noisy environments.

We talked about this with Crockley and Skully in that previous slide that we know that a good part of their day is spent in noisy environments, especially in, you know, part of their school day. So with the noise cleaning features in our hearing aids, is the current noise reduction enough, or could they benefit from dynamic noise cancellation? So, let's take a quick look. So, a study was completed at Vanderbilt in 2023, and this provided a good number of important learnings regarding dynamic noise cancellation in children. So, again, the full details of the study are, are on our website under the evidence section.

But I'm going to discuss the objective results today. So please note that the children in the study were at least ten years old, and they were able to follow instructions on how to use the myphonak app to make adjustments to the settings. Okay. So, if you're not familiar with dynamic noise cancellation, it is a feature that is automatic. However, to be able to control the settings, either you, as the audiologist, can set those in target.

However, we encourage you to counsel your patients to be able to adjust it in the Myphonak app so they can do it in lifetime in their noisy environment and make it most easy for them to hear in real time. So, if we look at this study, and that's why, as a side note, that's why we have those ten year olds and older to be able to follow those instructions. So just a little background there. So, the first part of the

study looked at whether or not speech intelligibility was affected by either having dynamic noise cancellation on versus off, and then the different adjustments of those settings. So the researchers wanted to make sure that with the adjustments in different situations, that speech intelligibility would not be compromised.

Thus, the reason we used older subjects, older participants. Now, if we look, the SRTs were measured at different dynamic noise cancellation settings using the hint c with noise at 68 decibels. And that was enough to be able to activate any of the noise canceling parameters within the hearing aid. So, manual speech in noise programs were used, each one with different dynamic noise cancellation settings in random order. So then that way they could go into the individual programs with the different DNC settings so that that was a little bit more controlled.

So the researchers did this by measuring the SRT at different DNC settings. Like I said, with hint c. And what we found, or what was found from this graph, we can see the different effects of DNC. So we can see with the green that the dynamic noise cancellation was turned off, and then the other three colors. So, blue represents a weak setting, purple is medium, and then teal is strong.

So we can see that speech intelligibility was maintained regardless of whether the dynamic noise cancellation setting was at any of those three levels. And we can see that there was an improvement versus having that feature turned off. So, with this population, this was great news, because then it gave us the confidence to offer this feature to our pediatric population. So we're seeing that speech intelligibility was not compromised, that there was a benefit of having this feature on versus off. Okay, so then the question becomes, well, what about younger kids?

Right? So for those kids that are under ten years or years of age, they can't control through their myphonak app, knowing when to make adjustments. Right. So for this group, the data had to be extrapolated. And this is a common method used to apply results of a study to a different demographic

group.

So the method that was used, you know, had FDA guidance when applying this type of linear regression model to the SRT data. So the dynamic noise cancellation was set to weak and this would be the default if we were to activate it in target. So also remember that children of this age won't be able to access the app and then therefore they wouldn't be able to adjust it. So we don't want to set that DNC to a strong setting. If anything, we would go ahead and set it to week.

So with all of these results and extrapolating the data and applying it to a younger population, Phonak is confident that that speech intelligibility is maintained regardless of whether dynamic noise cancellation is on or off, but more so with that dynamic noise cancellation on weekend, especially for that younger population.

So as a result, the most important information is that speech intelligibility was not compromised regardless of the age. And because we know that there are different preferences for reduction of noise in a noisy environment, we're going to put all of this information together and it's going to allow for us to make the DNC active at a default of week for all groups. So you as the provider have that ability to enable this feature in target. So you simply just go to the fine tuning tab. You can select either speech and noise or a speech and loud noise program from that dropdown, select program options.

From here you can turn on dynamic noise cancellation. Remember though, that if you are fitting it on a teen or an older child, they have to use the Myphonak app in order to access that DNC via the noise reduction slider. With the app, the slider still allows for them to adjust the strength. And this slider is not available to a younger child in the Myphonak Junior app. So when we release target version ten, dynamic noise cancellation will be on and set at week by default.

So currently in target nine 1.1, it is not defaulted on for pediatrics. You have to turn it on yourself and then counsel the family and or teenager on how to make those adjustments. Okay, let's move on to motion sensor hearing. So this next feature is available in all of our rechargeable devices. It detects whether the child is standing or moving, and then it adjusts the microphones to optimize the individual's ability to hear in a noisy environment, this is going to be active when they are walking.

So within six steps of walking, but also has to be in a speech and noise, or a speech in loud noise environment in order for this motion sensor hearing to be activated. And this is defaulted to a wide microphone setting. So it actually goes into what we consider a real ear sound microphone setting. So what is the point of this? Well, it's to allow for the individual who's in motion in a noisy environment to be able to hear without necessarily having to turn and look at the individual that they're wanting to listen to.

So I like to think of it as maybe a teenager who is walking from one class to another. They're listening to their friend talk about, you know, their latest crush, or if they want to go to the movies this weekend. And so that individual is going to be able to walk in the hallway surrounded by background noise and be able to hear their peer without having to necessarily turn and look to them. This is also going to allow for them to have environmental awareness as well. This feature, you can turn this off and you can also narrow the beam form if you want to in target.

So that would just be based on feedback from your patient when they come back into the office.

As a reminder, stereo zoom is still available and improving in lumity devices. So the original stereo zoom was designed to focus on speech coming from the front when in a noisy situation. Stereozoom 2.0 continues to provide automatic access to the person speaking in front of, but now does it faster and smoother. So stereozoom 2.0 is activated in a speech and loud noise situation. It's automatic in the 90 level.

You can add it as a manual program in the 70 level. So directionality can also be controlled via the speech focus slider. For those individuals using the Myphonak app, speech sensor is another smart speech technology feature. Again, new to skylumity, speech sensor is a spatial detection algorithm, and it constantly is on in the background monitoring factors such as noise level, speech to noise ratio, and the direction of the loudest speech sound. So when in the presence of noise, speech sensor optimizes the individual's ability to hear speech from the sides, the back, by accurately detecting the direction of the primary speech signal.

Now this is going to improve the signal to noise ratio when speech is coming from the sides or back, and then again ultimately reducing that listening effort when speech is not in front. So key note here is that the monitoring of the environment occurs in each hearing aid of a binaural fitting. So if you have a unilateral fitting, this feature is not going to be of benefit. Right. You have to have both hearing aids because they are communicating with each other via data exchange, and it really provides a 360 degree picture of the sound environment.

So the two hearing aids have to talk to each other in order to detect that direction of the primary speech signal and then improving that signal to noise ratio from the side with the noise from the sides in the back. Okay.

All right, so just a quick recap on the default settings for pediatrics in target speech enhancer is set to moderate based on the results of the study from hearts for hearing dynamic noise cancellation is currently set to off. So as we discussed, the default will change to on with target ten and that release whenever that release will be in the near future. Motion sensor hearing is set to wide, and that's going to provide the widest beam so that real ear sound for accessing speech. Other options, like I mentioned, are mixed and narrow. So again, you can go ahead and change that in target based on your patient's feedback.

And then stereo zoom 2.0 is an age dependent feature. So that means that stereozoom 2.0 is off by default for all of our ages, zero to twelve years old, and then it is turned on for our 13 to 18 year old group. Now, the reason that this is an age dependent feature at this time is because currently there is a study underway regarding this feature to see if this setting needs to be changed based on those results. So stay tuned for that. Okay, let's move on to Roger.

Oftentimes, we don't necessarily think of this as part of the smart speech technology, but it is. So it is in that streaming program, just an automatic streaming program. So if you have a Roger direct Roger receiver installed into your patient's hearing aid, that is going to allow for them to have access to Roger, and it will automatically go into that program. So Roger allows for direct streaming from Roger microphones to provide better hearing and noise and at a distance. So just like our previous hearing aids of Marvel and Paradise, Lumity allows for a Roger receiver to be installed directly into the device.

Some of you may or may not be familiar with that process. If you need more training on that, please do reach out to your trainers for that. But it really is a pretty straightforward and simple process. Regardless of whether the child is at home or at school, they're out playing their favorite sport or socializing. There is a Roger solution that will help them hear in all of those listening environments.

So, for example, our little ones, such as our toddlers our zero to three population, the Roger on or the Roger clip on mic, can be used at home, at daycare, out on walks, in the car. So once that device is connected to the Roger receivers, both are super easy. Turn them on, clip and go. They require minimal instruction for parents to easily use them. And then once children are in that school age, so maybe that four to beyond, four years old and beyond.

So four to 18 and beyond. The Roger for education portfolio is the perfect solution for those children. So simply using a teacher microphone, such as our touchscreen mic, it's designed specifically for that classroom environment. A child simply connects to their Roger receivers. And why the Roger

touchscreen is so versatile is because it will allow for connectivity to other Roger devices that can be connected in the classroom.

For students to be able to hear their peers audio streaming from smart boards, because both of those are vital to their learning. They're not just listening to their teacher, they're listening to their peers and smart board information as well. And then we do talk about continued Roger use throughout high school and into college and or the workplace. So the Roger on typically is that microphone of choice, because it is super sleek and very easy to use. So, just a little bit of results behind studies that have previously been done with Roger, we know that there are a lot of proven benefits.

We know that at least there is at least a 32% better speech understanding compared to hearing aids alone. Research has also shown that when using Roger, children have access to 5300 more words per day than in comparison to using their hearing aids alone, they can access as much as 12% more child directed speech. According to their parents. Children appear more alert, engaged and attentive in their daily activities and conversations. Then children using Roger at home have significantly better receptive discourse when compared to children with similar hearing loss and similar backgrounds that did not use Roger at home.

So again, that study was done by doctor Jace Wolf and Bonitas Barrera. It is a great study, lots of good information there, and just showing the benefits of Roger. So if you're not already incorporating that conversation with families and your patients, maybe something to take a look at, something to consider. So, traditionally, our trial devices have been available to our clinical audiologists to allow for in office demos of the hearing aids, but then to also allow for your patients to do, you know, a trial outside in their daily listening environments. What I love now is that our sky lumity hearing aids also have Roger already installed.

So the trial devices come with permanent Roger technology installed. And this is going to allow for you to do a quick first fit, connect a Roger microphone to those hearing aids and begin a live demo right there in the office. So I like to say, if you don't already have a Roger microphone demo in the office, contact your account manager. I really think that having these devices in the office are super beneficial. And then also you can allow for the parents to be able to hear what their child is listening to as well through the Roger system.

We have something called the Roger neck loop, and that allows for the parents to be able to put on a headset, get connected to that Roger microphone, and be able to hear what you're saying, ear level to their child. Parents get to experience it firsthand. So the other fun thing about our trial devices is that you can also change the length of the trial period. Now, you can do, and you can set it anywhere from one to twelve weeks. And this can easily be done through the save and closed portion of the fitting session.

So if you have those patients that you want to extend that trial period out a little bit more, you can do so at the end of your session. All right, let's look at connectivity. Because we know that this is very important for our pediatric population. They seem to be always connected, right? So we all probably have experienced those teens or tweens that come in and they're telling you about how they want to watch videos or, you know, watch TikTok or listen to music.

Maybe they're playing games on their phone or their iPads or Chromebooks. So we know that connectivity is very important both at home and in the classroom. So not only are they able to connect to their Bluetooth devices, but connecting to Roger and their app are equally as important with connectivity. We have tap control. So I want to take a look at this feature because this might be able to benefit some of those older pediatric patients that you have.

So remember, this feature is only available in the rechargeable hearing aids at the 70 and 90 level. So if you're not familiar with tap control, what it is is a feature that you can tap on your hearing Aidan or on your Pinna twice in succession, and it allows for a new way of activating Bluetooth devices without the need for an additional button on the hearing aid. So tap control can be used to accept and end phone calls. It can be used to pause and resume streaming, and then you can also access your favorite voice assistant. So, Siri, Google Assistant, whatever is preferred.

So we know that this allows for access to a number of different features within Bluetooth devices that are important for our pediatric population. So oftentimes the question will come up, you know, should I, should we use tap control for children? What do we know about teens and tweens and how they stream their Bluetooth devices? Would they prefer to use tap control? And really, this is more of a subjective sort of study, so to speak.

Right. So we have to ask them. So, the researchers from Vanderbilt wanted to know if this. So we had the researchers at Vanderbilt take a look at this. Right.

And so the first thing that we looked at was, do these kids want to stream, or can they stream from their current devices? So, that was obviously most important. Are your hearing aids compatible with your Bluetooth devices? Can you stream? And the majority of those children could.

Then the researchers check to ensure that the participants could successfully use tap control. Right. So we needed to make sure, hey, do these kids know how to do this? And so they were able to train them through target with the tap control training, and they were able to successfully do that. So they went through the training and were able to continue on.

So, can children use tap control? Again, completely subjective. We're asking them if they can do this. Show it to us. So, first, they were trained with tap control.

Were they able to use it? So, just like the sliders in the app? Of course they were. So, children found that these sorts of things are really pretty easy. Sometimes they needed some re instruction, but overall, they were successful in the end.

Then the researchers checked their understanding of using the tap control with a couple of tasks. So they were asked to pause and resume streaming, answer a phone call, then activate voice assistant. So these graphs pretty straightforward and simple. So the first was, does tap control appeal to teens and tweens? Were they, did they prefer to control streaming?

So, if you take a look, you can see that about 61% of them liked tap control little or a lot better than having to push a manual button. So, overall, you can see here are some of their responses in regards to controlling streaming. Did they prefer to answer phone calls via tap control? And about 50% of them did. Again, here are some of their responses.

And then the third was, do they prefer to use voice assistant? Again, about 44%. So these numbers aren't necessarily overwhelming. Right. There's not, like, a huge desire to be able to use tap control, but I think it did shed some light on whether or not this is something that.

That we leave activated or do we not? Right. So, given these findings, the default for tap control will remain the same. So we're going to have that turned off. But what it did shed some light on was this is something that you, as the provider can discuss with your, with your teenage population.

So, connectivity for all. Like we said, not only are these pediatrics able to connect to their Bluetooth devices, but connecting to Roger and their apps. So we want to make sure that we have full connectivity in all of our lumity hearing aids and that we do so the Myphonak Junior app is the only hearing aid app on the market dedicated specifically to pediatric patients. So children and parents have

access to data showing how long or in what kind of environments they have been wearing the hearing aids. It gives parents peace of mind, and they can help their children on their children's hearing journey and being more independent, you know, being able to give them some limited access on their apps, but allowing for them to have some control over their hearing experience.

Plus, remote support is an option as well. So if you are in a situation in a clinic, in a hospital where remote support is an option, this is a great way for families to be able to still meet with you as the provider in a situation where maybe they can't get to your clinic or your hospital, and maybe it just requires a quick check in. This allows for the individuals to be able to still meet with you. So I think having that through the MyPhone Junior app has been a great addition and a great opportunity and feature for not only families, but also maybe even our teenagers who want to be more independent but still meet with their audiologist as well. So just in case you haven't seen the Myphonak Junior app, this is just a couple of screenshots that show you just some of the basics.

So you can see on the left hand side, we have the ability to mute and unmute the hearing aids. There's volume control. You can see the battery status. So if the device is a rechargeable hearing aid, you can see how much battery life is left, which I think is fantastic. You know, especially for those kids on the go.

They might have to bring their charger with them just in case they need a few extra hours of battery life for after school activities. And then also, you can see the current hearing aid program in that program list. And then on the right hand side of the screen, you can see that noise reduction and speech focus are the two features that can be adjusted in the Myphonak Junior app. So what I love about this app as well is that there are instruction icons that will pop, that the parents can pop on to see, okay, when do I want to make this adjustment for my child or that teenager who is in their listening environment? Why would I make an adjustment to noise reduction.

Why would I make an adjustment to speech focus? Okay, so this is a great feature within the Myphonak Junior app. Another favorite part of the app for me also is the wearing time, or the Darbeed, a logging section. And this is a great counseling tool, really, to help encourage these children to use their hearing aids during all waking hours. So not only can the audiologist see this, you know, obviously when they come into the office, but the families can look at this as well and see how much wear time their child is wearing those hearing aids.

And again, this can elicit great conversation and follow up appointments when you are seeing them. Now, for comparison purposes, you can see that the Myphonak Junior app does have access to nearly all of the features of the Myphonak app, with the exception of more advanced, complex features and health tracking data. So we had talked about that earlier. We don't want to give kids full access to everything. We do the studies to see if, in fact, these features are of benefit to pediatrics and that they're not going to compromise speech intelligibility.

So this is a great comparison slide to see. Okay, if I have a teenager, what do what, which app should I allow for them to have connectivity to? Now, keeping in mind and remembering that the sky hearing aids are compatible with the Myphonak Junior app only. Okay, so all other devices are compatible with both apps. So just remember that if you have a pediatric sky Lumity Myphonak junior, only the older kids, maybe if they're in audio lumity, they can connect to the Myphonak app.

Okay, so designed for young users. So let's just go ahead and finish up here with this. So, Skylumity really continues to provide the robust and reliable housing that you're accustomed to. So, again, the robust and reliable housing, the number of different colors, I think their tamper proof capabilities are really important. And then also that led visual indicator, making sure that the family, the parents, the teachers, anyone that is working with the child knows when that hearing aid or those hearing aids are operating and connected throughout the day.

Also with the MyPhonak Junior app, just talked about that, allowing for them to have accessibility, have some control over their hearing aids, whether it's the child themselves or the parents or the family being able to adjust accordingly, adjust where they need to in their different listening environments.

Now, with that, there are so many options for children at various stages of their hearing journey. And I know at times it can be overwhelming. So, especially if you see a pediatric patient every once in a while. Really just trying to remember who might be appropriate for across or which app is compatible with sky versus audio and or if you are an experienced pediatric fitter. But you know, again, technology is changing, devices are changing and you need that go to resource.

This product and age recommendation overview is a great resource for everyone. This can assist in that decision making process so that you have the information in front of you. So it also assists in discussions with families, building that trust with them. So you are the expert and you are guiding them to that best solution for their child. So this is a great resource.

Like I said, it has the broad portfolio of solutions on the lumity platform and it really keeps everything straight. So if you are in need of this, you can get this from Phonak. Just simply either ask your account manager or get it from customer service.

All right. So lastly, at Phonak, we really like to say life is on, right? So we all know that together we change lives. And for us, life is on. When a person at any age with hearing loss, but especially because I work with the pediatric team, we want to make sure that our pediatrics are fully supported along their hearing journey and really can live those lives to the fullest.

So we want to make sure there's good communication and that leads to positive overall well being. So we know that that is going to be that bigger picture with taking action and really making sure treating hearing loss as that catalyst for well, hearing is well being.

And so together we change lives. All right, so we are at that top of the hour. I'm just going to pop in to see if there are any questions.

Okay. So there was a question that came through about how many Bluetooth connections can you have with lumity? So this is great. So if you used to fit Marvel, we used to have the ability to have two connections. Blue.

Two Bluetooth connections with one active connection being used. Now with illuminate, there are eight Bluetooth connections that you can have with two active connections. So this is great when you're dealing with pediatrics because there may be some children that are connected to, let's say, their iPhone and their iPad at home, but they get into the classroom and they need to connect to a Chromebook. That transition is super easy and super smooth because now they have eight slots. As I picture them in their hearing aids to be able to connect and save eight Bluetooth devices in their hearing aids.

So simply going into their classroom and being able to connect has been so much easier.

Do I recommend tap control for pediatrics? So as we had gone through as I had gone through and said, you know, tap control is definitely one of those things that's pretty subjective. So if you are working with a patient who is a little bit older, tech savvy, understands you can, you know, go through the tap control training. If you're feeling comfortable with them being able to do so, then I would say, go ahead and activate it. Kind of think of it, too, as, you know, sometimes our adults are the same way.

Like, do I leave it activated? Are they going to constantly be connect, you know, tapping on their tap control? It really, I think, is subjective and up to you as the provider to determine whether that patient is, in fact, a candidate for that.

Okay, so those are all of the questions that have come through. If there aren't any other questions, then I would say, have a great Monday. I appreciate all of you joining, taking time out of your busy schedules at the beginning of this holiday week. Hopefully everyone has some time off, but at the very least, have a happy fourth and a great rest of the week. Thank you, everyone.

Bye.