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Supporting Children and Teens with Oticon

Presenter: Lauren O'Neill, AuD, CCC-A

Hi. Thank you so much for joining this talk today. My name is Lauren O'Neill. I am one of the education and training specialists for Oticon.

I am an audiologist and I do come from a pediatric background. And because of that, I am super excited today to talk about our new pediatric hearing aid family. In this talk, supporting children and teens with Oticon. These are the learner outcomes for today's talk and here are the risks and limitations inherent to today's course. We are so excited to share our newest hearing aid family for pediatric patients, Oticon Play SI.

In this talk you will learn about how this device is designed to support your pediatric patients in all listening environments and all ages.

When considering what a hearing aid should look like and sound like to help children of all ages to participate meaningfully in the world, we drew inspiration from the World Health Organization's International Classification of Functioning, Disability and Health, which is also known as the ICF. The ICF. Four key components that we consider to enable children to participate meaningfully are these four environmental factors, body function and structure, activities and personal factors. And we can use these ideas when thinking about what children of different ages need from a hearing aid. Pediatric hearing aids of course need to be flexible to meet a very wide range of needs across different age groups and different activities, different listening environments.

So all of this is extremely important to be flexible for our pediatric patients.

Play SI is the name of our newest pediatric hearing aid family. And this name does carry two important ideas. One being play, which at Oticon is our pediatric kind of hearing care universe. All of our pediatric products under that PLAY umbrella. And then SI is the chipset, our serious chipset, which is our latest chipset that is in a few of our other products as well, such as Int, Oticon Intent, Oticon Zeal.

And so now we are bringing this really wonderful technology to a specific pediatric hearing aid.

There are five main things we are going to cover in this talk today about this product. First being the AI sound processing along with Oticon's four-dimensional sensor technology connectivity updates for this product and then fitting this device how we can make this the perfect fit for all ears and of course the durability of this device which we all know is so important for children.

At Oticon, we have been using artificial intelligence for sound processing since the release of Oticon more in 2020 and our previous family of hearing aid For Pediatrics, Play PX did support our patients with AI sound processing, also known as DNN. With the release of Oticon Intent in 2024, we came out with our second generation AI or our second generation DNN, which is essentially more precise and does a better job of categorizing and separating speech and noise to improve signal to noise ratio for our patients. And this technology has been used now in a few of our products since the release of this AI in 2024. And we're super excited to introduce this now into Play SI to support our pediatric patients. The AI in our hearing aids does have some really important components that are really important to understand and be mindful of.

First and foremost is that AI is always on in our products, always on, just as part of the sound processing, categorizing your speech and noise signals appropriately. It is functioning in all sound environments and it adapts automatically. This does not require any sort of program change. This is just happening on its own with the sound processing. Of course, we've been seeing that this technology has been helping our patients for six years.

And so it's been providing benefit for patients across different generations of AI. And with these products, AI is in all levels of technology. So we have AI sound processing in Play SI1 as well as Play SI2. And that goes for our other products as well, such as INTENT and onsi. All generations of hearing

aids are utilizing AI sound processing Oticon products.

There are quite a few benefits of Play SI that we'll be going into with regards to sound processing. But something that is really important, and I know was important for me as a clinician, is the ease of verifying these hearing aids. We know that we can verify these hearing aids with confidence when we're doing real ear measures, when we can meet these targets easily and quickly, our patients have better outcomes. And then we have time in clinic to focus on what matters. By being able to counsel our patients, spend time with education for parents, and not having to spend too much time clicking around in the software to get the gain curves exactly where you want them.

And these benefits were measured through a study to assess the first fit accuracy of Oticon Play SI to the DSL child fitting targets at 65dB SPL. And this was used by measuring the root mean square error. And this demonstrated the difference between the DSL target and the actual value of the real ear verification. And ideally for optimal outcomes, the recommendation is to have these results within plus or minus 3dB. And you can see here that in these three configurations that were tested so a flat 40dB hearing loss, mild sloping to moderate hearing loss, and a reverse slope hearing loss, the DSL targets were matched by less than 3 decibels for all three of the fitting configurations that were tested.

So these results give us a lot of support in knowing that we have excellent first fit accuracy for our Play SI product. And then you can spend time counseling your patient. You don't have to spend too much time making adjustments to give your patient optimal theme.

We're going to move in now to specifics on our sound processing with Play si, especially in comparison to our previous line, Play px. Some of the new features that have been available on the Sirius chipset. Some of the main things we'll discuss are of course, our AI sound processing. We'll discuss in depth our four-dimensional sensor technology. Of course, we'll spend some time talking about connectivity and our future Bluetooth LE audio.

We'll discuss the fitting levels that we have available with this product, frequency bandwidth, as well as updates to the body of the hearing aid, the receivers, and all of the equipment that is different from our previous products.

At Oticon, we focus heavily on providing our patients with a full sound scene and giving them open sound access. And of course we know this is extremely important for everybody to be able to hear what's going on around them, to give access not just to speech, but to the full sound scene. We know this is extremely important for adults, but it is even more important for children. And we want to help support their developing minds by giving them access to everything that's happening around them. And with our newer features, we were able to provide our patients with better speech access, better noise reduction, and therefore give their brain just even more information with clarity so they can have good understanding and have access to all the information that they need to communicate and kind of just be in the world.

Some of the updates that are most important that we want to focus on today that I'm going to talk about in detail are of course the four-dimensional sensors, our wind and handling stabilizer, some additions to our compression strategy, our noise reduction capabilities, as well as our feedback management.

When we look at more sound intelligence 3.0, more sound intelligence is Oticon's kind of noise reduction directionality where we can make adjustments to apply noise suppression. More personalized for our patients. And this is really where a lot of the updates of our hearing aid are in comparison to our previous product. So of course we have our updated winded handling stabilizer which I'll touch on later. We have our four-dimensional sensor technology.

With that we also have a categorization of our listening environments as either easy or difficult depending on how you have this set in your Moore sound intelligence screen. And with that, you can

personalize noise suppression for easy listening environments separately from difficult listening environments. A lot of flexibility here to give your patients the support that they need. We also have the addition of sound enhancer, which is a ability to either increase or decrease your 1-4,000Hz access in difficult listening environments, depending on the patient's particular needs, but can definitely help to give your patients better speech access.

We have our updated deep Neural network here. This is the same term or the same idea as artificial intelligence and hearing aids. It is all a form of AI. And the AI in our hearing aids has been updated from Play px. Now into Play si.

The main difference on these two different generations of artificial intelligence is that our second generation was taught on more frequency bands and therefore has a better understanding and is more precise at categorizing and separating your speech and noise signals. And therefore this gives our patients a clearer speech signal. It gives them better, more natural sound quality. And of course the noise reduction is more advanced and therefore better signal to noise ratio for our patients as well. And with this new product, with the Sirius chipset, we do have the ability to reduce unwanted sounds up to 12dB while preserving of course, that clarity of speech and remaining sounds that are not considered to be noise.

So this gives the brain better access to the entire environment, but. But with the ability to reduce unwanted noise more aggressively and in a much more accurate and effective way, We have the addition of the four-dimensional sensor technology in play si. This technology has been available in Oticon intent since its release and is now available for kids. And we'll talk a little bit about the nuances of using this for your pediatric patients. But first I'll discuss what these sensors are doing and what this four-dimensional sensor technology is giving to your hearing aids and to your patients.

The dimensions of these sensors, as you can see here, are head movement, body movement, conversation activity, and acoustic environment. And these four dimensions of the sensors are essentially giving the hearing aid information on the patient's listening intention.

For example, while we are moving throughout our day, our listening changes can be. Excuse me, our listening needs can change throughout the type of environment that we're in, but also the type of conversation we're engaged in or, or what our body and head are, are doing. When we have a one-on-one discussion, we tend to keep our head rather still versus when we have a discussion with multiple people, say in a circle, our head tends to move back and forth versus if you're just walking around and not engaged in conversation. So there's many different needs that we have based on what our listening intention is. And these four-dimensional sensors do give the hearing aid good information as to what our patients are trying to do.

This photo here is a kind of a simulation of what I just explained in that you can have a group of people, all in the same acoustic environment, all in a similar room, a similar space with a similar amount of noise, but be doing different things and having different listening needs in the moment.

This first one here is somebody just navigating the environment. The hearing aid will recognize that the patient's walking around, maybe they're turning their head to the left and the right, that they're in a potentially noisy environment here, but that they're not engaged in conversation. And so we will, in that moment, give the patient a little bit more open sound access so that they can hear if somebody calls their name from across the room. Then we have this intimate conversation happening. This is a one-on-one discussion.

Again, when we engage in one-on-one discussions, we tend to stand rather still. Our head tends to be rather still. Again, you're still in that noisy environment, but now there's a conversation happening and there's conversation activity. The hearing aid in this moment does know that this speech happening is

the most important access for this environment and is emphasizing the speech that's happening right in front of you. And then separately, this other group here is now a group of multiple people talking together in this environment.

When you are engaged in a group discussion, we tend to have our body fairly still, but our head will turn to the left and the right. It's just natural to not look at one person when you're having a conversation with multiple people. The hearing aid will recognize all of the speech is very important. We are involved in a group discussion and apply the noise suppression and speech access appropriately based on what a patient is doing.

And we've seen how this technology benefits our patients specifically with giving them better access to speech cues. And so here we have some information on how the speech cues have been accessible in comparison to More Sound Intelligence 2.0 or our older generation devices. With the AI improvements on the Sirius chipset alone, we see a 12% increase in access to speech cues. And this is related to the speech intelligibility index. And then that is without the four-dimensional sensor technology.

When we then introduce our 4D sensors, we see an incredible 35% increase in access to speech cues. This technology is extremely beneficial at providing not just a greater snr, but an appropriate SNR based on what the patient needs in that moment and is providing them personalized support to give them better access to the speech that they need to hear.

And now how has this been proven or how have we been able to see how this helps specifically children? So Ryan McCreary and Melissa Henry at Boystown National Research Hospital recently did a study on how children and teens so ages 12 to 18 with mild to severe hearing loss could benefit from the four-dimensional sensor technology. And overall these experiences were documented with and without the four-dimensional sensors activated. This first part of the study shows that when the four-dimensional sensors were activated, the sentence recognition for these patients was improved for

50% of the participants compared to when the sensors were not activated. So huge amount of the patients had quite an improvement in their ability to have sentence recognition with the sensors activated.

The second part of this study was conducted to see listening difficulty and how patients report their listening difficulty is with and without the sensor technology. We utilize the ecological momentary assessment and questionnaires to determine their listening experiences in these different environments and these results showed an incredible 77% of participants reported they had reduced listening effort. They had a reduction in listening difficulty with the sensors activated. And from this study we can conclude that the 40 sensor technology offered additional support for tweens and teens as they engaged and participated in complex listening environments.

This study, this information is really giving us good ideas of how much this can support our patients, especially in complex listening environments. Again, this was considered for school age children. We did not you do any testing or are recommending this for younger children, but certainly can be considered for school age children. That being said, this technology is defaulted off under the age of 18 in our software. That is true whether you are fitting a pediatric patient with intent or pl.

The age is what matters in GENIE and that is what is prescribing your pain, your fitting algorithm, your directionality, etc. And as part of that, anybody under the age of 18 the four-dimensional sensors will automatically be off. Because we do feel it is important to leave it up to the provider as to whether or not they feel this technology can be helpful for their patient. We know that pediatric patients vary with their needs so much and just because somebody is 16 doesn't mean that cognitively they have the same capabilities as a typically developing 16 year old. And so it is really a very personalized and holistic approach and providers really we want you to just use your clinical judgment to make the decision as to whether you feel this technology is something that would be helpful for your patient.

Some things we can use here to get an idea of whether or not this Technology can be helpful for our patients. Things that you can discuss with your patient to determine if this is something that is worthwhile to consider. Of course, we want to consider the child's typical listening environments. Are they in noisy and complicated environments frequently? Are they finding that in these listening environments they're still having challenges and requesting additional support?

Are they reporting that, for example, when I'm doing well in the classroom, I can hear my teacher, great, but when I'm playing soccer with my friends or when I'm playing a sport, I can't hear my coach very well, I can't hear my teammates very well. And so there's definitely a need there for a little bit more support. So this is something then you can consider activating to see if it helps support your patient further. And then, of course, we want to get some information from the patient as to how they're doing with the four-dimensional sensor technology. Of course, we can just take some of the patient's word and get information on how they feel they're doing.

You can also consider some other outcome measures like the Vanderbilt Fatigue Scale for children that can give you some good information as to if these sensors are providing further support for the patient. Overall, the message here is that we've done some great research to show that these four-dimensional sensors can certainly help get patients better access to speech. But this is something that is really up to the provider to determine if it is worthwhile or necessary to turn on for your patient. So use your clinical judgment and just be mindful that this technology will default off for anybody under the age of 18. And a little bit later in the slide deck, I will show you where in the software you can turn the sensors on and off.

When we talk a little bit about GENIE updates with this product.

Now we're going to move on to some of the other features that have been updated since the release of Play Si. And one that we know is super, super important for children is wind and handling noise. Of course, this is important for adults as well, but we all know that children are in very windy environments

at times outside playing sports, like these children here running on the beach. And we want them to be able to hear well in, in these environments when it's windy or when they're touching their ears, putting a hat on, giving somebody a hug. These are reasons that will potentially cause wind and handling stress on the hearing aid and therefore affect the way the gain is being applied in the moment.

This is an example here of traditional hearing aids and how they, how they monitor and manage wind and handling noise. And with a traditional approach, the wind and handling noise enter both microphones, and then the stress of the noise reduction system is kind of forced to attenuate those broader bands, which first results in less effective noise handling, but also can leave some remaining discomfort of those sounds and just reduce our patient's ability to have better access to speech sounds. And that's with the traditional approach. With our newer wind and handling stabilizer, we are able to provide much better support for these challenging environments. And how it works is Pliaci will detect and filter wind 500 times per second, and it works in 24 unique channels.

What happens is, when there's wind present, the hearing aid will select the microphone with the cleanest sound and prevent disruption from entering the system. And then it will attenuate the remaining wind and handling noise of the other microphone, but only in the frequency channels in which the wind is disruptive. So we are not now taking down all of our gain or reducing complete access to speech because we are emphasizing the microphone that is not being affected and then reducing wind and handling noise only in the frequency bandwidths or the channels here that are affected. Our patients have less discomfort with wind and, of course, have better access to speech and just better clarity in these more complicated listening environments. And this is a really exciting update for our play line because this is not something that we had available in Play PX and it is now available with Play si.

So something very exciting. And again, as we know our children, our pediatric patients, are out there in the world. We want them to be able to hear in every listening environment.

We're going to move on now to some updates in our compression strategy, which is called more sound amplifier 3.0. We do have an improved compression strategy that is faster and more precise. And specifically, our transient noise management has been updated in comparison to our previous pediatric hearing aid. This is a feature that has been available in our adult hearing aids, and we seen how well it works for our patients. This is called sudden sound stabilizer.

Sudden sound stabilizer is transient noise management for loud and soft transient sounds. It is not just managing a slamming door or a clanging dish. This can also manage footsteps, nails, typing on a keyboard, a clicking pen, a ticking clock, Bothersome, uncomfortable, soft transient sounds are attenuated as well. So the way this works is it's looking for your spikes or your peaks in transient sounds and attenuating them. And in doing this, we are not taking away clarity or gain for speech.

For example, if you have a patient who has complaints of soft sounds, our Initial instinct is to go into our soft gain curve and take the gain down. Of course, that makes the hearing aids more comfortable, but it does take away important speech access. Utilizing sudden sound stabilizer allows us to take away those uncomfortable or annoying soft and of course, loud transient sounds without affecting your prescription, without affecting your gain curve, and without affecting speech clarity. Really, really excellent tool that is in our software. You can make it more or less aggressive, as you see is necessary for your patient, but this is an extremely effective tool at making the hearing aids more comfortable without having to take away gain.

Additionally, with regards to our compression strategy, we now have, or excuse me, our more sound amplifier 3.0. We now have an expanded bandwidth. Our Pliaci 1 level 1 hearing aid has a bandwidth of 80 to 10,000 hertz. Our lower level play Si2 has a bandwidth of 80 to 8,000 hertz. Much more high frequency emphasis with this product, which is wonderful for our patients.

Next we will discuss Moresound optimizer. Moresound Optimizer is our feedback management. This is a preventative feedback system that prevents feedback from occurring before it even occurs, as opposed to a more traditional feedback management that is addressing feedback after it has already begun. So we call this a preventative feedback system. And we know how often our patients, or especially our pediatric patients, are in a situation in which feedback could occur.

When we consider traditional feedback management, we can see that gain reduction is a very, very common way to reduce feedback. And therefore, when you are verifying your hearing aids, you're seeing that you're meeting your targets. The hearing aids are doing great. However, when you are with a patient who's wearing a helmet, who's having a constant risk for feedback, there is a reduction in gain. And therefore they're not at their prescription all day long.

They are not getting as good access to speech, and they could definitely be missing a lot of things because of these very common situations that are listed here on the bottom of this chart. Wearing a helmet, you know, riding their bike around town, hugging somebody, eating, chewing, you know, driving. There are so many situations in which our patients can have a risk for feedback. And therefore, with a traditional approach, the gain is being cut throughout the day, and it's not something that you even necessarily would realize that's happening unless the patient is having a hard time hearing. But with our new or sound optimizer with Play Si, the gain is not being adjusted for feedback reduction because we have our preventative feedback system that is kicking in.

It uses spectrotemporal modulation to prevent the feedback from occurring essentially using what we call a breaker signal, and it stops audible feedback before it happens. So we don't have to worry about reduction in gain throughout the day because our feedback system is really just doing its job of making sure this is not an issue to begin with. So really exciting to have this now for our pediatric patients because again, we know that these kiddos are in situations often where feedback can be an issue.

To wrap up the AI Sound Processing Our Updates for Features for Play si. You can see the list here of all of our latest features. We've had these features available in our adult products. Super excited to implement this for our children and give them the latest and greatest that we have. One thing to be mindful of about Play is that Play does come in two levels of technology.

So play SI1, play SI2. They have all of the features that we have available in intent with the exception of tinnitus support. So Play does not have tentative support capabilities. If that is something you need for a pediatric patient, you can certainly fit them with Intent and that will provide them with tinnitus support. But otherwise feature wise sound processing all the same and has all of our latest and greatest features.

Next we're going to touch on connectivity with this product.

If anyone listening to this is a pediatric audiologist or just knows teenagers or kids, we know that connectivity is an extremely important thing for children. Of course this is to help them to hear better. You know, we want them to stream with their hearing aids when they're listening to music, when they're talking to friends. But we know that this is also a very social aspect, especially for teenagers. And we want them to be able to engage with their friends with their streaming capabilities and have good access to be able to hear speech, songs, music while they are using their phone, while they're using their iPad, their tablet, et cetera.

We just know how important this is for teenagers and how tech savvy they can be. So we want them to have access to the latest and greatest Bluetooth capabilities. Play SI is made for iPhone. It has been optimized for Android with utilizing Bluetooth LE Audio technology. So this allows for kind of a new generation of connectivity within Android.

We have updated Fast Pair, Google created Fast Pair to connect to Android devices with Bluetooth LE Audio, just a faster, quicker way to pair our hearing aids to Android phones. And then of course we have with Bluetooth LE Audio the ability to connect to our cast broadcasts.

These patients of course have the companion app. Through the companion app they can change their volume discreetly. Teens and TWEENS are always on their own. I think, you know no one would bat an eye if a kiddo is going in and changing the volume on their hearing aids on their app. They can check the battery levels of their hearing aids and they can now access AuraCast broadcast through the companion app as well.

Some of the updates for the AuraCast broadcast capabilities through the app is that you can use your camera to access an AuraCast broadcast if there is a QR code presentation. You have improved usability for broadcasts with subgroups different languages. You can mute your broadcast if you want and you can also use your streaming equalizer to fine tune if you are listening to a broadcast and want to change the sound quality. So a ton you can do for AuraCast through the companion app. We certainly do recommend in most instances to use the companion app as your means of connecting to AuraCast.

Some Android phones do have native controls, but it is best to do it through the companion app. You have a wider range of broadcasts that you can connect to and just easier for patients and for counseling purposes.

We also have quite a few accessories available for Play SI. We have our TV adapter. We have our ConnectClip which is our remote microphone that is a one to one remote mic. Also can act as an intermediary device to connect to other Bluetooth devices such as a laptop. We have our standard remote control which is for volume and program change.

We have the Edumic which is our classroom solution and we now have the Easy LE adapter. This adapter is something that has not been available for our previous generation devices. This easy LE adapter can be used on our serious platform devices. This is a really wonderful accessory, allows you to connect to Android phones, tablets, laptops, Nintendo Switch devices with a USB C port to allow for streaming if they are not directly compatible. It's very small, it's very easy to pair, you don't have to charge it, it just takes on the life of whatever you plug it into.

Really, really useful tool. Again, not been available for our previous line, but it is now available for Play Si and then of course we have our edumic. Edumic is adaptive, it's very easy to use and it provides clear and direct access to the speaker's voice. This remote microphone uses digital modulation and Oticon's proprietary 2.4 GHz Bluetooth essentially. And some of the highlights of this product are of course this is a one to many connection so you can use this Edumic to connect to many sets of Oticon hearing aids simultaneously.

This can be used as an intermediary device to connect to a laptop. You can use a direct audio input to stream from another device. And you can also use the Edumic to connect to other systems that may already be set up in the classroom by putting a receiver into the bottom of the edumic. And now your hearing aids can connect to a system that may already be set up. This Edumike has quite a few functions.

It's a really excellent solution for children to use in the classroom and very adaptive.

Moving on to the fit. The perfect fit for all ears as well as the durability of the device.

Classi comes in two rechargeable styles. We have our mini right? In our Mini bte you can see the body of these hearing aids looks exactly like intent.

We have two fitting levels in one device. Meaning in this mini BTE you have the capability of choosing an 85 fitting level or a 105 fitting level. This is not something that you have to worry about choosing at the time of the order. This is built into the hearing aid and you can make this adjustment in GENIE at any time. And I will show you later in the course how.

In GENIE you can make these adjustments, but you can choose if a patient has a mild to moderate hearing loss to stay in that 85 fitting range and then let's say they have a big drop in hearing and now they need more headroom. You can just go in, switch from an 85 to a 105 and now you have more output capabilities with the product.

This is wonderful and ideal for progressive hearing losses. Asymmetrical hearing losses where you can have two fitting levels with the same body of hearing aid on each ear. Also very helpful for fluctuating hearing losses because you can change this very easily without having to worry about purchasing or switching out for a stronger device.

When you are choosing the fitting level, we do recommend if the patient is within your 85 fitting range, that you stick with the 85 because you do get a higher frequency bandwidth with the 85 fitting level as opposed to the 105 fitting level. The 105 fitting level has a little bit of a smaller frequency bandwidth but has more power capabilities. For more severe hearing losses, we certainly recommend using the one that is most appropriate for the patient's hearing loss. For this reason, You can also attach a fin tube to this product or slim tube which at Oticon is known as the Porta Mini fit. There are two tubing styles of 0.9 and 1.3 millimeter.

You can connect this, you know, if patients have moisture issues draining ears and you don't feel like they should have a receiver in the ear, or if they want something a little more discreet, you can of course use our domes, our grip tips, our light tips and our micro molds with this product. And so there's a lot of flexibility you can do here with, with these products. Be mindful if you're ordering, if you're

considering fitting a slim tube for a patient, you will get the Corta Mini Fit adapter with your order of a Mini bte, but you will not get fin tubes unless you specifically request them. So make sure, if you are interested in that, that you are specifically requesting fin tubes.

These are your DSL fitting ranges for Plasi One. As previously mentioned in the Talk with Play SI1, you have your 10,000Hz fitting bandwidth and you can see here your 85 and 105 fitting levels do vary or differ from our proprietary VAC plus of course because DSL requires more output. So something you certainly want to be mindful of when you're choosing your fitting level for your patient.

And then you'll see play SI2. You have the same fitting range, but the fitting bandwidth is to 8000 Hz as opposed to 10.

At Oticon, we do make ear molds not just for mini rights, but also for the Mini bte. For any type of BTE that uses standard tubing, you can certainly order any of these style ear molds from Oticon. We have, you know, our basic canal, our canal lock skeleton. You can get a full shell. There's really any style ear mold you want.

You can of course order from us. We do have our clear option. We do have some fun colors as well, so certainly worth considering for your pediatric patients if they need a traditional ear mold.

Another update with this product in comparison to Play PXI has a completely different body hearing aid and uses different receivers. These are the same receivers that you would be using for intent. They are self calibrating. They're called the Mini Fit Detect speakers. We call them smart receivers because they self calibrate every day making sure that the gain application is appropriate.

There are a new, there is a new shape as well of the receiver to have a better curve for retention. So that is a little bit different than our Play PX receivers. Again, if you've been fitting intent, these are the

same receivers that you have used for that product. So it will be the same with that.

We have our standard fitting ranges here, 60, 85, 100 and 105. If you are fitting a patient with a 105, you must fit them with the microshell detect, which is the embedded receiver mold.

These are your acoustic coupling options for our Mini, right. We have our domes, our open base dome, base dome, double and power dome. We have our grip tips, we have our light tips, micro mold, and then that micro shell detect. The micro shell detect is required for the 105 fitting level, but you can use the micro shell detect on any of the fitting levels if you choose.

These are our DSL fitting ranges for Play Si for our Mini, Right. So you can see the difference here between the 60, 85, 100 and 105 being different than our VAC plus or proprietary fitting ranges. Again, because DSL requires more gain. Something certainly to be mindful of when you're choosing which receiver style you want for your patient. And then again for your level 2, we have 8000 Hz fitting bandwidth.

We do have updated charging with Play SI as well. This is a different charger than our older products. This is the same charging that we have as Intent. This product uses contact charging, has the two little contacts on the bottom of the hearing aid, which is a much more stable and quicker charge. The options here are for a smart charger or a desktop charger.

The smart charger, of course, holds at a minimum of three charging cycles.

This quick charge is really nice because you can put the hearing AIDS in for 15 minutes and get a good four hours of use. And the full charge only takes two hours. Your full charge is 20 hours. 20 hours including streaming. So certainly a full day's worth of battery with this product.

The smart charger itself does take four hours to get a full charge, but again will hold a minimum of three charging cycles. If everything is dead, you plug the charger in, you plug the hearing aids in, the hearing aid charge takes priority, and then your smart charger will charge. It's a really nice option, especially for kids who are on the go, need to maybe charge their hearing aids for a little bit before they do an evening event or something really quick. Very, very easy to maintain that battery life for all their waking hours.

Now, this is my favorite slide. Our new colors. This is very exciting for pediatric patients. I know many of us pediatric audiologists want to have our patients wear fun colors and just be really proud of the devices that they're using. We do, of course, have all of our standard colors.

We have our honey beige, chroma beige, silver, terracotta, chestnut brown, and diamond black. So all of those kind of basic colors. We have had our Cool red, cool blue, power pink and aquamarine. So those are an addition as well for Play Si. But the newer colors that are only for Play Si that have not been used previously are our lavender and mint green.

Really fun, really exciting. I love the lavender color. I think just really fun to have our pediatric patients put on something colorful and bold. And to tack on to that, we now have the ability to use our tone hooks. Color tone hooks.

We have all of these color options as well. You can certainly mix and match these however you see fit for your patient. We have color wheels available for your patients to be able to take a look at how the mix and match would look so they can make decisions on what they're looking for. So really fun and exciting. If you don't have these color wheels, make sure you reach out to your account manager, get them sent over to you because they're really nice to have for patients to be able to visualize what the hearing aid is going to look like.

And then of course, we also have some really fun sticker options. These stickers will come with the with your pediatric hearing aids. Again, you can use these with a color. Just really fun. Just making sure, of course, that when you put these stickers on, they're not covering up the microphones.

But really, really fun, fun stuff for our kids.

Now we're going to wrap up with discussing how to fit this product, a couple of nuances with Fitting Play Si.

Firstly, you do need to use the NOAA Link Wireless for connecting this product and for firmware updates. This is the only programming device you can use for Fitting Play Si. This is a completely wireless charging.

Something that's really exciting for being able to program for your patients is that you can program these hearing aids while they're in the charger. So if your patient comes in with a very low battery, if you're about to do a fitting and you forgot to charge the hearing aids, which I did many times, you can get them a few minutes of charging. I showed you previously the quick, quick charging times. So we get a nice quick charge. But you can leave them in there to charge them while you are maybe doing a firmware update, maybe while you're just checking, data, logging, updating the hearing aids, and you can let them charge a bit so that they get enough of a charge that you can then take them out of the charger, put them on the patient's ear, and then do whatever other changes you need to make.

When you are doing this, the hearing aids are on, but they're muted. So of Course, you have limitations with what you can actually do in the software with this. You can't run feedback, of course, while these are in the charger, so just be mindful of that. But it is nice that you can kind of get your, your fitting started, get a couple of things under your belt before you have to take them out of the charger and make sure that they have a full charge.

A few other updates in genie first things first. Something to be mindful of is that if you do not see Play SI listed as an option in the family section of your hearing instruments in the prepare screen, do not fret because we are using something called Late Activation. And this basically means that you do not have Play SI listed as an option until you have connected a Play SI device. This goes for a Play SI1 or a Play SI2. If you are fitting a Play SI1, you'll connect it to Genie, then you will see it as an option, but you will not automatically see all the levels of technology.

So then if a few weeks later you have another patient with a play SI2, you'll connect it. Now you'll see play SI2 populated. We do have a workaround to do this. If you need it, you can reach out to your account manager. They can help you to have access to these without actually connecting the devices.

But don't worry about your Genie being out of date or having any issues with the software just because it's not listed there.

And this is also true for Ferret, which is our other new product that was launched at the same time as Play si. So both of those products are using the lead activation.

Now, I spoke a little bit earlier about changing your fitting level for the mini BTE. Again, we have an 85 and a 105 fitting level for these products. So let's say you have a patient who has a mild to moderate hearing loss, who maybe has like enlarged vestibular aqueduct or some type of etiology of hearing loss that could cause a quick shift in hearing. Your patient could be in your 85 fitting level. They come in, you have a change in hearing, you can connect them to the software and then very easily go in and adjust your fitting range.

I'm going to play this video here so you can see. All you have to do is click right there on your fitting level and bump it to a 105. You will then move on to your fitting screen. It will prompt you to recalculate,

but very, very easy way to give your patient more headroom, more gain, and again, just really Nice to know that your patient has the flexibility, if there is a change in hearing, to change this in the moment and give them all the access that they need without having to worry or rely on sending a hearing aid in or exchanging something out for a more powerful hearing aid. You have that fitting range available right there for you.

Very easy thing to adjust.

We also discussed briefly the new Mini Fit detect speakers that are the speakers or receivers that we've been using in Intent and are now available in Play si. One thing that's really nice about these receivers is that when you put them in the hearing aid and connect them to the software, it will read the level of the receiver, it will read the length, it'll read the serial number and the side. So all that information will just populate in genie and you don't have to go in and click to make sure you're using the right one. And you must have receivers in the hearing aids in order to connect them to start fitting. If you accidentally switch the receivers, you will receive an error message 16 blinks on the back of the hearing aid to tell you that there's something incorrect or in the software you will get a pop up that tells you that this was previously programmed for the right or previously programmed for the left.

It will essentially give you an error so that you are aware if you incorrectly placed the receiver.

The self calibration I spoke about a little while ago is really a wonderful thing. It guarantees that every time the hearing aids are turning on they are making sure that they are precise and the gain is being applied in the way in which you have it programmed. And then again if there is a problem with the receiver, there will be 16 blinking lights on the back of the hearing aid to indicate an error. And then these receivers have a higher NPO which can of course improve sound quality and give them better access.

This is where you can see when you do apply SI Fit and you'll connect the hearing aids to the software, you'll see that automatically the in this specific example it's a 60db receiver will populate. You'll have your right and left that populate. You'll have your speaker length listed there, which is really nice. If you forget and you don't have it in your notes, you can always go back into their file and see what length they've had. So just a nice time saver and just a way to cross check that we're not making mistakes by putting incorrect receiver strengths on or incorrect ears.

So just gives us a nice cross check to make sure that mistakes aren't being made, which is very easy to happen in a very busy clinic day.

And then here in Genie is where I will show you you can turn on and off that four-dimensional sensor technology I spoke about earlier in the talk. So you go into your fit screen, you go to more sound intelligence and then you'll see the sound configuration tab at the bottom. When you click on Sound Configuration, you will see that sensor technology is listed again, defaulted off for anybody under the age of 18. If you determine that this is something you feel could be helpful for your patient, this is where you can activate it. You just activate it by toggling the switch on and now the sensors are turned on.

There's no other programming required for the sensor technology specifically. You can also create a program with the sensors on and then another program with the sensors off. And if you want your patient to be able to play around with the different settings and see what they feel is most helpful for them. But again, defaulted off for anybody under the age of 18.

Another thing for pediatric patients that will be defaulted off is your tap control.

This can be enabled or turned back on through the companion app if they want. Or of course you can turn it on to default on in genie if you have an older patient who maybe wants to be able to use the taps to answer them phone.

And you can do that by coming into your finish screen. You go to your buttons and taps and then you'll see at the bottom call controls is where you can say use tap control. You can turn that on and then your patient will have the ability to tap to answer phone calls.

Another update that is wonderful for children is our update to the data logging. And this is really exciting to have not just information about how many hours the hearing aid is on throughout the day, but also how much the hearing aids are being worn. We all know that sometimes we get inaccurate information from our patients, adults and children. But really this is a nice thing to see, to be able to talk to your patients and to your patient's parents about not just how often are these hearing aids turned on, but how much are they on their ears and they're wearing them. Really, really exciting update.

And then lastly, just to be aware, please be mindful that Microsoft support for the Windows 10 operating system ended on October 14th of 2025 and we will not have Windows 10 support in 2027 that is ending in 2027. So you want to be mindful of that. If you need to get your software updated, just make sure that you're aware of what your Windows level is.

That is everything that we had to discuss today about Play SI. We talked about our AI sound processing, our DNN 2.0. We talked about implementing user intent sensors or our 4D sensor technology for pediatric patients. We discussed our updated connectivity utilizing Bluetooth LE audio. We talked about the styles of hearing aids that we have available and our multiple fitting levels within the bte.

And then of course, this is an extremely durable hearing aid that is built to last for our patients with an IP68 rating. And I want to thank everybody for taking the time to listen to this talk today to learn more about our pediatric line Play si. And I hope you enjoy fitting and seeing how much our hearing aids help to support your patients.

