Optimizing the Starkey Fitting Experience with Pro Fit Software's Advanced Fitting Tools

Presenter: Jacob Hall

All right, well welcome today and thank you all for attending today's course which is called Optimizing the Starkey Fitting Experience with Profit Software's Advanced Fitting Tools. So my name is Jake Hall and I'm an audiologist here on the education and training team at Starkey and I primarily cover the west coast and today I'm really excited to discuss some advanced fitting tools within our profit fitting software. We're going to take a look at our audiometer tool, our Verify Comfort tool and our speech mapping tool. And we'll take a look at some case studies where these could be helpful in clinic and then we'll kind of wrap up the talk by going over the steps for setting up and using our REM Target Match tool later in the talk. And this is a great tool that can really help doing really measures in a very efficient way and it's all integrated within the Profit software.

So before we get started with the discussion today, a couple of housekeeping items to take care of. But if you do have any questions, feel free to use the Q and A feature and at the end of the discussion today I'll go through and answer those questions. Additionally, handouts are available in your pending courses on Audiology Online or you can click the link that is shared within the chat in this classroom. Now, CEUs are available if you do have a paid membership for Audiology Online. And in order to get the CEUs after the course is complete, you can go to your pending courses and take that multiple choice exam to get that CEO for today's session.

And then lastly, if you do have any issues or need any technical support, please feel free to call audiology online at 800-753-2160 or you can email them at customerexperiencecontinued.com or lastly, you can use the Q and A window for any technical assistance.

Now this is new to AO this year and you'll see this on any of the courses you take here. But these are the risk and benefits associated with taking courses online. So please feel free to read through this slide at your leisure.

Now, after today's session we have some learning outcomes that you should be able to achieve. So first, you should be able to describe how to utilize the speech mapping tool. Second, identify situations to use the Audiometer tool.

And third, list the steps involved with running REM Target Match.

So a little bit of background before we get into those tools, but our Edge AI Portfolio is our latest product family and we released this back in October of 2024 and there's been some recent updates to this family as well. And with the Edge AI portfolio you have a full portfolio of products. So as professionals, you have all the appropriate tools to choose the best solution based on your patient's individual needs. Now, within the Edge AI portfolio we have three different styles of RIC devices and three styles of custom devices. And all of these are going to be available in three different tiers of technology.

In addition, we have a full line of accessories including a remote control, a TV streamer which is featuring the brand new LE audio and more recently released but two different microphones including a table microphone and and a remote microphone. And in addition to this, we do have some compatible apps. We have the My Starkey app which you can think of as a control center for the patient using these devices. And then we also have a Hear Share app which you can really think of as a data logging for caregivers. And we do have courses on audiology online that go in much more depth on all of these different products and applications.

So when we released Genesis AI, we came up with a brand new fitting software. And we released Genesis AI back in 2023. But we designed profit software, really working hand in hand with other hearing healthcare professionals. And with the release of Edge AI, we've continued to update our profit fitting software, making sure we incorporate all the different suggestions to ensure a convenient and easy workflow for hearing healthcare professionals.

Now when we look at Profit, our goal is really to make this as easy and efficient as possible, knowing you do have a busy clinical workflow. So a couple of the things here to make that possible is in the connection screen you don't need to assign hearing aids to right and left. The software will automatically detect that based on the receiver in the hearing aids. We also made it a goal to go from box to best fit within four clicks. So really, really efficient getting these devices fitted.

Additionally, there's three different types of smart sessions or workflows within Profit and these know kind of where in the journey the hearing aids are. So the first time you open them up it's going to be in a preparation workflow. The second time would be a fixed workflow and every subsequent time after that would be a follow up workflow. So really designed to optimize that that process. And in addition to this, we made sure that commonly accessed tools like troubleshooting are indeed available from every screen within the software.

So ultimately this was designed to make your workflow as easy as possible.

Now today we're going to discuss some more advanced tools within the Profit fitting software. So these may be tools that you haven't utilized before, but we're going to go through our audiometer tool or verify comfort speech mapping, and we're going to go through how to operate each one of those tools and we'll take a look at a case study how it can be used clinically and then we'll take a deeper dive into, into our REM target match and getting that set up and how to utilize that for integrated automatic rulier measures.

So let's start with our audiometer tool. Now, the audiometer tool allows providers to test a patient using pure tones and the hearing aid as the transducer. So the audiometer tool is used when you're looking to perform in situ audiometry. And it is recommended that you do initialize the feedback canceller prior to using the audiometer for the most accurate modeling.

Now, the audiometer tool is a great tool for troubleshooting and really it effectively captures the effects of transmission line acoustics. So a great example of this is maybe you make some programming changes and the patient reports not hearing those changes, not what you'd expect, or maybe even the opposite of what you'd expect. Or maybe you increase the vent size on an ear mold and they don't report any changes in sound quality. These are all great examples of when you can use the audiometer and get a better idea what's going on. So maybe you run the in situ audiometry and it's way different than their actual results.

This could indicate indeed that the receiver is maybe pointed at the canal wall or you're not getting any true venting effects. One thing to note is if you do suspect a true change in hearing, we do encourage you to recommend a full diagnostic hearing test in a booth if you do suspect that there is a change in thresholds.

So taking a look at the controls and how to operate the audiometer. So with this, you can quickly and easily navigate through different tones and intensity levels. And when you're presenting those pure tones in the middle section of the screen there. And this is really going to allow you to verify what the patient is hearing through their hearing aids. And if you wish to make programming changes, you can do that directly from this screen as well.

Now, when you go to the screen, it's important to note that the hearing aids will mute right away. So if you do need to communicate or talk to the patient, there's that little microphone icon in the bottom left hand corner. So you can select that and then you can turn the microphones back on on the hearing Aid. So to conduct this test, it's important to keep in mind room acoustics. So you want the room as quiet possible.

You do want to provide instructions to the patient similar to what you would do for a diagnostic pure tone test. So maybe have them raise their hand when they hear the tones through the hearing aids and

let them know that indeed you are looking for that softest sound that they can detect. Now, the audiometer is a monaural function, and it's going to start in the right ear if you have a binaural fitting. Of course, if you do want to start with the left ear, you can start on that one just by going ahead and clicking on the left ear to start with the left ear instead of the right. And then you're going to simply select the symbol and the frequency you wish to test.

And you can click the presentation button to present a tone. You can choose that to be a steady tone or a pulse tone in the bottom of the screen. And then you can use your keyboard arrows right and left to switch the different frequencies and up and down to switch the intensity level so you can detect that threshold level. Also, from the screen, you can assess the ucls as well.

So based on the results you get from the audiome tool, you can really use this to determine kind of your next steps in terms of troubleshooting. So if you do notice a major change in thresholds, it does not necessarily represent a change in hearing. So this can be a result of maybe ear anatomy, the receiver placement, but also keep in mind that it is susceptible to room noise, especially in those low frequencies. So just be cognizant of that when interpreting changes from this tool. And then based on the changes, you can reprogram based on those new thresholds, or you can use this information to inform you of making other changes.

So maybe you do indeed want to change the acoustics, maybe change the venting size or style of the earbud, or indeed maybe you want to switch to a custom ear mold. So the audiometer tool can really help inform you on where to go from here.

Now, if there are changes noted, you can best fit the hearing aids to the new thresholds. Now, you're going to see some different options here, and I do want to highlight the difference between these. So Best Fit is going to change the frequency response as well as any features so in the streaming configuration or within the sound manager. So if you do Best fit, it's going to reset those back to the

default, whereas Target Match is only going to alter the frequency response. It's not going to make any adjustments, setting those features that you maybe made in the streaming configuration or the sound manager.

And then you can apply this to either the current program or you can apply it to all the programs. So just keep that in mind when you are making those changes.

So, taking a look at a case study and how the audiopter tool can be used in a clinical application, and in this case, our patient Jane was fit with edge AI devices and open domes. And during the initial fitting we made some programming changes. However, Jane reports that she couldn't hear a difference when we made those changes. So this is a great example of where you may want to utilize the audiometer and it can provide a better idea what may be occurring. And just to note, the audiometer can be used during the initial fit or during follow up sessions to help you get an understanding of what is going on and then kind of direct you how to program the hearing aids accordingly.

So when we run through the audiometer tool, we notice that there's a difference between Jane's booth audiogram and the audiometer tool within profit. So since we do see these changes, one thing to keep in mind is we did the audiogram in the booth the same day as this fitting. So we know that these changes aren't any true changes in threshold. So what it might suggest is that indeed the hearing aid dome or the receiver could be the culprit here. And maybe it is actually sitting up against the canal wall of the ear.

So this can help direct us, you know, by making some decisions. Maybe we want to indeed change the dome, change the size of it, or, you know, even consider doing a custom ear mold in this case. So really, the audiometer tool is a great kind of tool for troubleshooting and assisting you in deciding what is best to do for this patient. And in Jane's case, we did try switching to a different size ear tip and it did work. She noticed those changes.

So indeed it was because that receiver was directed at a canal wall. So that was a great use of the audiometer for troubleshooting in this case.

Now the next tool I want to look at is the Verify Comfort tool, which is really used to confirm if loud and soft inputs are satisfactory to a patient. So Verify Comfort works by presenting a sequence of tones across a frequency response curve and oftentimes this will be done during those initial fittings.

Now, this feature is oftentimes also used by clinics that maybe don't have a really ear system. And it's an easy and quick way to verify comfort with different inputs without having any additional setup. So the tool Verify Comfort is going to be available for in person and live remote programming. And one thing to note here is that tones are going to be presented in the personal program and it's going to present two different curves. So you have a 50dB curve.

And for this you want those sounds to be audible, but you want them to be soft. And then there's going to be a 90dB curve where you want the sounds to be loud, but you don't want them to exceed that comfort level.

So the tones in Verify Comfort can be presented in an upward or downward sweeping method across the entire curve. You can also pre select a range of frequencies you want to sweep across, or you can present at a single frequency. The sweeping speed can be adjusted in the middle of the screen. There you have slow, medium and fast options. And you can pause the sweep at any time to adjust the specific frequency up or down.

Now, these changes will apply to the hearing aid frequency response curve automatically if you do make them from this screen. And just note, this is a monaural test. So if you do want to run it on both the right and left ear, you would need to do that individually.

So now that we understand kind of how to utilize the Verify Comfort tool, let's take a look at a case study where this could be applied. And in this case, our patient Bill has normal hearing sloping to a mild hearing loss in the right ear and a profound hearing loss in the left earth. Now, Bill wears an EDGE AI CROs system to address that asymmetric hearing loss. So you do your initial fitting and at his two week follow up visit, he comes and reports that certain sounds are piercing to him and other soft sounds are not really audible. So we can take a look at utilizing Verify Comfort to address some of these concerns.

So we go to this. We're going to test that right ear because that's where he's wearing the hearing aid. And we'll watch a video of utilizing Verify Comfort.

So for this we're going to run two different curves at the two different levels. So 50dB as well as 90dB. We can adjust that sweeping speed which we see there in the middle. And we're presenting it. So now it's sweeping across the 50dB curve.

And for this we can actually have Bill raise his hand when he is hearing those tones. If he didn't hear them, we could adjust them. And now we're at the loud 90dB curve. We'll run across those different frequencies. And for this, if any of those tones are Indeed piercing, have him raise his hand there and we can adjust those tones then individually.

So really you can make those soft sounds audible and those loud sounds, you know, know, loud, but we don't want them to exceed that comfort level. So this is how this could be applied clinically using the Verify Comfort tool.

Now the next tool that we're going to take a look at is the speech mapping. And this is going to allow you to illustrate to your patient how a hearing aid is processing speech or any other input in real time. And it's going to display them in live curves within the fitting software. So this is a great tool to help

provide counseling, you know, kind of direct your fitting or for troubleshooting. So this can be used during the initial fitting or follow up visits and you can do up to seven captured curves with the speech mapping tool.

So speech mapping is great for troubleshooting and you can use a variety of different stimulus and get a graphic representation of what's going on in real time. So just to go over some examples of where this may be utilized, but maybe they come in and report that someone's voice is too loud or too soft. And for this you could actually maybe have that person there in that session and talk using live voice as a stimulus. Maybe other sounds are causing discomfort. You could do a live demonstration with those sounds in office or maybe use a media file for that specific sound.

Another great application of speech mapping is if a patient notices feedback. And for this you could have them, you know, do what is eliciting that feedback. Maybe it's when they touch their ear or make adjustments and you can see visually where that feedback is occurring. Another example is for sound quality. So maybe a patient reports that certain loud sounds indeed make it sound like the hearing aid is causing it to shut off.

And for this you could try to elicit those sounds in clinic while using speech mapping and see really what's going on. So it can be used for a variety of different situations and you know, you can use a variety of different stimulus to elicit those situations.

So kind of taking a look at the controls of speech mapping, but speech mapping is only going to be available during a live fitting session. List curves can be captured on the speech mapping screen or really any fitting screen with a graphical view in profit, except for when you're on the frequency lowering hearing aid test or Verify comfort screens. And once speech mapping is activated, the frequency response graph is going to change its display to real time information of what the hearing aid is actually getting. And this can be displayed in either bars or lines for that input. In addition, the tinnitus stimulus is

going to be temporarily disabled when you are in speech mapping.

Now taking a look at the different ways you can capture this. In the center of the screen there you're going to see some different controls. You have a camera that's going to allow for instant capture. So this is great. If you are trying to use speech mapping to assess feedback, for example, you could capture where that feedback is occurring.

Or if you're looking at using a live voice, maybe assessing audibility, you can actually record a 10 second average with the record button. And then there's a play and pause button which is going to activate and end the speech mapping.

So let's take a look at a case study where this can be utilized. And in this case, Ms. Day and her husband return for a follow up visit after their initial fitting. And Mrs. Day is reporting hearing, well, in pretty much all situations except she's having some trouble hearing her husband and reports that he's very soft spoken.

He's there with the session with you too and kind of expressing some frustration that she's not hearing his voice. So this would be a wonderful opportunity to use our speech mapping to, you know, assess what's going on when using his voice as a stimulus. But it's also going to give a good visual representation. So you can help counsel Mr. And Mrs.

Day on why they may not be hearing his voice properly. So with speech mapping really can help with counseling, but it can also help, you know, guide your fitting or troubleshooting during initial fitting or follow ups.

So we'll take a video look at a video here of utilizing speech mapping. And in this case we're going to have Mr. Day actually talk while using this speech mapping tool so we can get an idea of how his voice

is reacting to the hearing aids.

So we select the audiometric thresholds and the soft target response there. We're going to look at it from an output view and then we're going to go ahead and hit play. And for this example right now I'm actually just going to be talking. We're going to see my voice in response to that. So we're recording a capture there, 10 second average.

And then after this we're going to have Mr. Day talk. And when using this in a clinical application, I do often find it's nice to have maybe a passage that they read in a conversational voice rather than just trying to, you know, find things to say that just makes it a little bit easier. So now Mr. Day is talking, we're recording his voice in real time.

And what we're going to see here is a visual confirmation in purple there that Mr. Day's voice is below that threshold of audibility. So this does indeed indicate that, you know, the report is accurate. Ms. Day is not hearing everything that her husband is saying.

So this can really kind of help inform you on, you know, where you want to go from here. So indeed, you may want to counsel on communication strategies, but also, you know, maybe for programming you do want to, you know, create an additional program, maybe you want to increase some of that soft gain or, you know, this could be a good opportunity as well to talk about different accessories. So maybe even with those adjustments, a remote microphone could be useful here. So speech mapping is indeed a great tool for, you know, assisting with troubleshooting here. But what I really like about it is that it's going to give a nice visualization and it can really help kind of counsel the patient on their hearing journey.

So shifting gears a little bit. But we're going to go over our REM Target Match, and this is a feature that's going to allow you to verify hearing aid fittings using your existing Real Ear equipment fully

integrated within that profit fitting software. And it's going to provide a streamlined process for automatically matching real ear targets to provide an accurate and efficient fitting experience.

So when looking at REM Target Match, there's a bunch of different features here, and some of the main ones is that it is fully integrated into the workflow in Profit utilizing your existing REM Target Match or REM tools. It's also going to allow for simultaneous binaural rail your measurements. It does provide a method for automatic target matching for Both our Estat 2.0 proprietary fitting formula as well as standard prescriptive formulas. It's going to show a live display of measurements relative to target. And finally it's going to allow for manual fine tuning to further personalize the fitting as needed.

So, taking a look at compatibility requirements, and we do have compatibility with all the major real ear measurement systems. So audioscan VeriFit 1 and 2 odometrics Oracle system, Medrec's Avant system, the Inventus Mastro system, and more recently, we introduced compatibility with the Interacoustics Affinity system. And this was primarily a request from our European customers, but any of these different ruler systems will be compatible and integrate with the REM Target Match tool in profit.

So kind of taking a look at some other compatibility requirements, and these differ a little bit between Verifit and all the other systems. But for Verifit, what you see is that all product styles and technology tiers of Genesis AI, Signature Series and Edge AI will work with this. And the only other compatibility requirement is having profit 2023.0 or newer.

Now, if you are using any of those other systems, the otometrics, Medrex, Inventus or the Interacoustics, the requirements are slightly different. They still require Profit 2023.0 or newer, but they also require NOAA 4.5.1 or newer. So they do require that NOAA integration. They don't work and that's that standalone software. So indeed, if you are having any, you know, concerns setting it up, make sure that your NOAA and Profit are indeed up to date.

So we're going to take a look at the Steps for using RemTarget Match and we'll highlight those differences specifically for VeriFit versus all the other systems because those are slightly different. So the first thing we'll do is go through the setup process and then there's going to be the calibration. So one thing to note here is that calibration is actually going to be done on the Verifit console, whereas the other systems are going to have their calibration done within the REM Target Match tool. Third step will be unaided measures. This does not apply to Verifit as it does not support unaided measures, but all the other systems do require an unaided measurement.

And then finally is the aided measurement.

So just like with any good, you know, audiological procedure, always recommend to start with otoscopy. So this is important to ensure that there's not any cerumen or other debris that might interfere with these measurements, but also really helps you kind of get a lay of the land understanding the ear canal shape and size for proper probe tube insertion. So make sure that you do otoscopy prior to doing the REM Target match.

So now to begin, we're going to start by looking at the Verifit system here. But you're going to need to launch Profit and connect the hearing aids and then you'll find REM Target Match on the Quick Fit screen in the very center. And then what you want to do is you want to select REM Target Match and then this tool is going to go ahead and open.

So then to begin the initial system setup. And remember, this only needs to be done on that very initial setup, but the verifit will not be detected automatically. So to detect it, what you're going to need to do is go to your preferences in Profit, go to REM Target Match, and then check the box that says Enable Network Scan for Verifits. And from here you want to enter the Verifit's IP address, which can be found under the Verifit settings. And then you want to go ahead and click Apply and okay.

And then for professionals using any of those other systems, what you want to do is you want to simply launch Profit, select REM Target Match again in the center of the screen there, and then kind of shifting back over to Verifit when you see the connected hearing aids at the top here. In addition, you're also going to see the experience level, the fitting formula that's selected in Profit. You'll see the acoustic options, and as a reminder, if you want to change any of those acoustic options, you must actually exit the REM Target Match and make those changes. The changes cannot be made when you're in the wizard itself. And then you're going to notice that within this screen you may change the Verifit targets and stimulus.

But note that the Verifit does not support manufacturer proprietary fitting formulas and it's going to default to NAL and L2. However, if you do want to use our ESTAD 2.0 formula, profit will adjust the modeling accordingly after REM Target Match is completed, if indeed ESTET 2.0 is what is selected as the fitting formula within Profit. So you just want to make sure that whatever formula you want to use is indeed selected in Profit, and then it will model it accordingly.

Now, for professionals using the other systems, the options are a little bit different, so you'll see that the hearing aids are connected to the top, you're going to see the experience level, you'll see the fitting formula and the acoustic options selected in Profit.

Now, to complete the setup process, the professional will select the real ear system in the bottom left corner and make sure that it indeed is powered on. And then you're going to select Launch and you're going to notice a green dot appear next to the and this is going to indicate that there is successful communication between Profit and the ruler equipment. So once it's launched, you can select next to take you to the next step in the process.

So calibration for Verifit systems is going to be done directly on the Verifit Council and you're going to follow your normal workflow for this, but you'll want to select on your Calibration from the Verifit menu. And then you'll want to hold that probe dock about 6 to 36 inches away from the Verifits loudspeaker as you see in the image. And then you're going to go ahead and select the calibrate button and you're going to do this for both probes, so the left and right. And you want to ensure that that probe mic that you are calibrating is indeed facing the loudspeaker. So if you are using Verifit, you're familiar with this procedure already as it's required to run any real ear measures on Verifit.

Now, for the other systems, calibration is a little bit different and it's actually going to be done through the REM Target Match tool. And in order to do this, what you're going to do is you're going to fold that probe tube microphone over, place the probe tube opening at the top of the reference microphone, and then you're going to place that Reference microphone approximately 1.5ft away from the real ear system speaker. And then you're going to select start and next to proceed.

Now the Otometrics, Medrex and Inventus and the interacoustic systems do require an unaided measure to be obtained. So for this you want to have your patient sit in front of the real ear system speaker approximately one meter away. And then you want to place the probe tube into the patient's ear canal so that pre measured length.

And then for the unaided measures, what you're going to see here is a gray line. And this is going to be an average reug or really or unaided gain. And then once the measure is complete, you're going to see a blue colored line which is going to be your measured rug. And when you are measuring the rug, if the probe tube isn't in place correctly, you might see this as a flat response. You might see kind of a dip in those high frequencies rather than a peak.

So if you do see any of these, you do want to, you know, maybe reinsert the probe tube, make sure that it is in place correctly, or you can adjust it while it's in the ear so it kind of more closely resembles that

average rug. And then once you get that, you can click next to proceed.

And really, before we go any further, we just want to take a look at a couple of good to know Items. First, the ISTs or the international Speech Test signal is going to be used for all the aided measurements. And this is an internationally recognized test signal used for probed microphone measurements.

Next, the aided measures are always going to be completed in the personal program, but Target Match will be automatically applied to all programs. Now, the hearing aids are automatically going to be set to omnidirectional, and all the sound processing features are going to be turned off during aided measurements. And the hearing aids will return to the original settings once this measure is indeed completed.

And then lastly, the targets are going to BE matched from 250 to 5000 Hz. Above 5000 Hz, the variability from Probe 2 measures can really vary. So for this, a predicted real ear model is going to be used for those adjustments. And then one thing to keep in mind is that once the wizard is complete, if you reopen REM Target Match again, those previous measures are indeed going to be erased because it's going to assume that you want to retake those measures. So we do recommend that you you save the session or print out those graphs prior to reopening.

REMTarget match.

So from here, the steps for Verifit and then all the other systems are going to be the same. So the screens that we're going to see are going to be shown using the Verifit. That's just the system we had when we recorded this course. So just keep that in mind when you're looking at the screen. But when performing the aided measurement, there's going to be two adjustable options available in the wizard on the aided response screen.

And these are going to include the max sound level and the input level. So we'll take a closer look at those.

So the max sound level is the level at which the system will automatically stop measuring. Now, the default is 120 decibels, but if you want to change it, you can simply click on the max sound level and then choose your desired level. And then profit will indeed remember the last level that was utilized.

And then when looking at the input levels, you're going to see that there's soft, average and loud targets. Now, the average 65dB curve is the default view, but if you want to see those additional curves, so in this case the 50 and 80 dB curves, you can simply check those as well. Note that even if those are not checked, all three levels are going to be measured and adjusted. But by checking the soft and loud input levels, it can give you an additional visualization, maybe to provide some insight if you wanted to make some manual adjustments after.

Now, if you want to change the profit target levels, you can do this and to do this, what you'll want to do is go up to your preferences in profit, select Target and then REM target match and then you can see the different levels that you can set for soft, moderate and loud inputs.

Now it is important that the room setup and patient positioning are, you know, in mind when doing this test. So you want to make sure that the room acoustics are conducive for doing on your measures. So you want a room that's quiet, minimal reflective surfaces for the patient positioning. You do want them to sit in front of the real ear system speaker approximately one meter away. And then you do want to insert the hearing aid without moving the probe tip once that's in place in the ear.

And then also, you know, instruct the patient just like you would with any other real ear measures that you know, this test doesn't require the response. So indeed to just sit quietly and try to remain still

during the course of this test.

So the aided measures are going to run two times. First is going to be the baseline measurement and adjustments to gain are then automatically going to be made to match the targets. Second measure is going to show you this result. So the test will automatically stop once all the measurements are made and then you'll click next in order to proceed.

And then it will say REM target matches complete and you can click OK to finish and exit the wizard from here.

So now on the very side of that graph, what you'll see, it used to say predicted real ear measurement, but now it's going to say measurement based on real ear on the side of that graph to let you know that the REM target match measurements have been completed.

So what we'll do now is take a video look at a video at that process from the very beginning to end. And this video is actually done in real time. So it will show you how long the entire procedure takes. It's a nice, quick, easy procedure.

So we'll go ahead and get started and we will click REM target match.

So that's going to load. You're going to see your different options here. You have your experience fitting formula acoustic options, the target and the stimulus you want to utilize. See that we're using Verifit. So we clicked launch red dot turned green indicating that there was successful communication between the system.

Just takes a moment here to launch and you can go ahead and click next.

And now it's asking to do the aided measurement. So remember, for verifit we didn't need to do the calibration because we did that previously. So now it's going to run the pre adjustment at that 50dB SPL input and you can see the target in that thin blue line. And then you can see the measurement here of the pre adjustment in the dotted line, blue line. So now it's running the 65dB curve and this is indicated in the green lines in the middle.

Again, this is the pre adjustment for that 65dB or average input.

And then the next one will be the pre adjustment of the 80dB input which is going to be indicated in the gray.

Great. So now we have all of our pre adjustment measures done and it's automatically going to switch to doing the adjusted measurements here. So now we see that it's going to run for the 50dB input and you're going to see that this is going to be a solid blue line and you're going to notice that there's going to be a difference between that dotted pre adjustment curve and the solid line, the post adjustment curve. And now it's going to run that for your 65 decibels input indicated in green.

And again you're going to see the difference between those lines as well, especially notable, say from about 2,000 to 4,000 hertz where you see the differences there. And then lastly it's going to do that for your 80dB or loud input indicated in gray. So post adjustment will be shown in that solid gray line. You'll see that same kind of difference between the dotted and the solid curve there.

Great. So now all those measures indeed have been completed and you're going to see on the side of the graph now it does say measurement based on real year. So that video actually does show you kind of how long the entire procedure takes so very, very quick to make those automated measures. And that was done as part of a binaural fitting. So the adjustments for both the right and left hearing aid are now made and applied here and you're back in your quick fit screen.

So you can make additional adjustments as needed or if you want to even get more specific and click fine tuning and adjust frequency bands individually.

So one of the questions we got when we launched this tool was indeed, is this going to be an accurate way to make real ear measures? So we did an internal study at Starkey looking at the accuracy of this tool compared to, you know, traditional real ear measurements to ensure that REM target match measures are equivalent and within kind of those evidence based acceptable tolerances, comparing it to traditional real ear measures. Now for this study there were 10 participants tested and we looked at three different hearing loss configurations. So one of them was a mild flat hearing loss, another was a moderate flat hearing loss, and then last was a normal sloping to moderately severe hearing loss. And we did this testing with three different real ear systems and the results of this study did indicate that REM target match performed equivalently and within those specified tolerances compared to traditional manual real ear measures.

And this really performed consistently across all the different real ear systems. So you can use this tool and feel, you know, comfortable that the results that you're getting with it are indeed, you know, accurate and within the tolerances that you would expect with a traditional manual real ear measurement.

Now I want to take a look at a couple kind of tips and tricks for REM Target match as well. So specific to Verifit, but if calibration has been completed daily or weekly, the calibration prompt will indeed be skipped and the user will be prompted to just start with those aided measurements. Second, if the binaural sound field assist is skipped on the VeriFit 2, measurements are going to be run minorally and and it will do this until all those measures are completed. And then VeriFit1 only supports monaural measures, so the measures are automatically going to switch between the ears until all those measures are completed. Whereas verifit2 you do have that option to simultaneously run binaural measures as

long as that binaural sound field assist was done prior.

And then when we're using noaa, it is important to make sure that if you want those measurements available in your fitting report to do this, what you're going to do is turn on the NOAA FAST data. And to do this you're going to go to your preferences in Profit, select General and then you want to select Noah Fast Data, go ahead and check that box as you see on the screen, hit apply and ok. So this will always be available in your fitting report.

Now there might be times that you do want to clear those REM Target match measures and if you want to do this, you're going to go up to the toolbar in profit, choose Clear REM Target Match and then just go ahead and click ok.

Now when kind of looking at the experience level, but for REM Target Match it's always going to do it at our experience level three, which indeed in profit is our 100% targets. So if you have set the experience level to a level other than 3, rem target match is going to adjust the gain to match that experience level after the target match is complete but it will be conducting that at level three during the test itself.

Now, once you exit REM Target match, there is not a way to access those REM measurement curves again. So it's really important to print that fitting report graph before closing the profit session because it will assume that if you re enter that tool it that you want to repeat those measures. So indeed, before you close profit, we always do recommend either saving or printing the fitting reports. You have those graphs available for later reference.

Now as you saw, you can select that loudness level for max loudness. And oftentimes what we do recommend here is to make sure that does align with the UCL measures so it doesn't exceed that for patients. So you can adjust that from the REM target match tool itself and then specific to verifit and to NAL NL2. But bone conduction thresholds must be entered at 5002000 Hertz. They need to be entered

in Noah otherwise the realer system will fail the launch.

And if you do use Verifit now regularly, this is a requirement that you're already accustomed to, which is something to note there.

So I know we went through a lot of information today kind of looking at these different tools and again these are tools that you may not be utilizing every day. So just to make sure that you do have resources available for you as you want to start using these or have an opportunity in clinic to use these. You know, Starkey Pro is a great resource. We have quick tips available for each and every one of these tools which is basically a one page document that will highlight how to use them. Also, you know, within profit, as we were discussing, you can print different reports based on a patient's fit in.

And this could include, you know, those really are target match curves in the fitting report. So it really gives you a lot of flexibility on how you want to generate and print those reports on Starkey Pro. You know we do also have white papers looking at some internal studies. We have those quick tips which I was discussing. There's a lot of different videos available as well as, you know, links to different training opportunities for.

So you do have a lot of different resources available. Another great resource is reach out to your local Starkey representative and they can help you, you know, utilizing these tools or setting up your systems accordingly. Or you know, you can always reach out to our audiology or technical support if you do need additional help when setting up and utilizing these tools.

So lots of resources available to make sure that you know you are indeed set up for success. With our profit software. So that being said, I wanted to thank everybody for taking the time to join today's session and hopefully, you know, after today's session you can start utilizing these tools as applicable in clinic. And just wanted to take a look to see if there's any other questions here in the chat.

It does look like we do have one question here and that is should I run the audiometer tool during every fitting? And I don't personally recommend that you have to run it on every fitting. I like to utilize it more as a troubleshooting tool. Indeed, some places will run it on every fitting, but depending on your workflow and efficiency, I think, you know, use it as more of a troubleshooting tool, especially if you are having, you know, those things where you don't make some changes and the patient isn't noticing those changes.

And then another question in the chat here, can I use the Depth Finder guide on my roller equipment? And for Verifit it is going to be utilized on the Verifit system itself so you can use the Depth finder there for the other systems that is kind of going to be more in their standalone software and you can't have that active at the same time as the REM Target Match tool. So if you do want to use those, you'd want to do that prior, get it set and the Probe 2 in place, close out that individual software and then go into the REM Target Match tool so you can use it for both systems. It's just a little bit different workflow.

I think that is all the questions I'm seeing. But indeed, if any other questions come up, please feel free to reach out to your local Sarkey representative for more information. And I wanted to thank you all again for joining us today and hope you have a great rest of your day. Thanks so much. Bye.