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Foundations of Bone Conduction: Fitting the Cochlear Osia System

Presenter: George Cire, AuD, CCC-A

- Hi everybody, my name is Ginger Grant. And I wanna thank you for joining us today. I'm excited to introduce our presenter, Dr. George Cire, who is an audiologist and a clinical technical project manager who's going to talk to you about Cochlear Osia System prescription and fitting.

- Thank you Ginger. Good afternoon, good evening, good morning to all of you. I appreciate your time and spending your valuable education time with us today. And I'm gonna be talking to you about the Osia fitting system, both from a prescription and fitting perspective. So we always like to start our presentations off with a reminder and a revisit of our goals and objectives as a corporate entity. And our goal today is to provide to you some foundational knowledge that you'll need to program the new Osia system. And you'll learn how to select appropriate magnet strengths and place the magnet in the sound processor. You'll also learn about the digital link calibration and we'll explain to you how to run through the Osia activation protocol. And we'll also want to make sure that you understand the steps for successful Osia fitting using our Osia fitting software.

You know, at Cochlear we have a mission to help people hear and be heard. When it comes to the Osia system, this is all new innovation. It's really designed to transform the way people understand and treat hearing loss. Since its introduction in early 2020, we've seen thousands of new Osia recipients take advantage of this groundbreaking technology. Today we'll go through the information you'll need to empower people to connect with others and live a full life. So our agenda for today is to go through the whole idea of getting started with the fitting software and the system. We'll do a review of the fitting software and talk about the steps and try to provide to you some tips along the way and provide a summary at the end to give you your basic foundational knowledge as you dive into this technology. So we wanna start by talking about a system overview at a high level. And so in today's world with Osia, we have two different implants that are currently available. One is the OSI200 implant, and that's

this one that is on the far left in the top row. And then next to it is the Osia OSI300 implant, which is now compatible with MRI at 1.5 and 3.0 Tesla without having to remove a magnet or even use a splint kit. And then as part of that system, we'll be talking to you about the Osia 2 or 2 sound processor. This is the external device that picks up the sound and does all of the heavy lifting in terms of signal processing. And then we'll also want to notice that as part of the system we have available the Osia Cochlear Smart app for iOS for both the iPhone and the watch. And it's also available on the Android platform. Of course, as part of the system we'll be talking about the Osia fitting software 2.1. And we also have a wide range of compatible Cochlear true wireless devices that can extend and enhance the experience of using this device with various hearing loss configurations. So we wanna start and talk about the digital link in the Osia 2 sound processor and the fact that this is tuned to the implant using the correct magnets with the correct sound processors. And what I wanna point out to you in this slide is that across the top here, you'll notice that we have a magnet compatibility matrix here. And you'll notice that the colors are important to give you an immediate feedback as to what system you're working with.

All of these that are marked in purple are really aligned with the Osia 2 sound processor. And you'll notice that the removal and an extraction tool for the magnet as well as the magnet and the carriers of the magnet are colored in purple along with the medial surface of the Osia 2 sound processor, which is also purple. And we wanna remember that that's the compatible system with our new OSI300 implant with the removable magnetic cassette. And this provides the magic around how we can provide MRI safety and compatibility for these persons that use this implant system. Along the bottom of the slide, you'll notice that we see a very similar sound processor but the medial surface is actually gray in color and your extraction tool and all of your magnets are marked a little differently with the gray moniker, which is what's compatible with our legacy Osia OSI200 implant system. And since both of those are in the marketplace now we wanted to point that out to you because this gives you a ready way to look at

something and from a glance, know what you're working with. So we'll start by talking about changing the magnets. Now, you'll remember that the magnet that is in the sound processor will attract to the magnet that's in the implant itself. And that attraction is simply there to hold the coils or what we call the antennas in place so that you can actually transfer the information from the external to the internal implant. And their magnet strengths are one through four, and they can be removed and customized for the individual patient. So with the OSI300 implant system, we'll be using that purple extraction tool. And what I want to point out to you is that in terms of removing that magnet, we provide these little white index marks that are important to notice because it will make your life much simpler as you go through this process. And you simply insert that tool in and line up the magnet tool with the indexed marks. And when you turn that tool counterclockwise, you will unlock the magnet that's present in the sound processor and then you can then lift it out and you'll have the opportunity to remove it and put a different magnet in to insert it.

And then across the bottom of this slide, you'll notice that again, we want to call your attention to these index marks because as you load a new magnet strength in that tool, you'll want those white lines to be lined up. And you'll also want to then align the magnet with the marks that are on the cover of the programming cover. And then by turning that clockwise, you will lock that magnet into place and then you can lift that off and you'll see that the magnet is set up in the OSI300 system to show this sort of horizon line or half moon scenario where you want that horizon line to be through the middle of the sound processor. You'll notice on the far right hand side of the slide that we've got a scenario where someone wasn't paying close attention to the index marks. And it is actually possible to place this into the holder and lock it in a non-standard way, which would make it more difficult to attract to the internal magnet on the implant. So the tip here is to always look at those index marks and use those to your best ability, which will simplify the task of removing and changing and replacing magnets. So when we talk about magnets and the different processors or the different systems

rather, OSI200 versus OSI300, we have traditionally used axial magnets in the OSI200, which are essentially two magnets that are mounted on top of water in a pancake like scenario that you see in the graphic here at the top of the chart on the left hand side. And you'll notice that there's a red positive and a blue negative polarity scenario that's present there. And the magnet in the implant itself is the opposite. And you wanna always remember that in magnetism, opposite polarities will attract and like polarities will repel. And so this is the scenario that has a fixed magnet in the OSI200. And that's what made it more problematic for MRI compatibility because as a patient is placed in or near the rotating magnets of the MRI scanner, strong magnetic fields impact on the magnet itself. And because the magnet is fixed and in an axial configuration, those strong magnetic fields could actually act to pull on and even in some worst case scenarios, dislodge. And that's why in this scenario you had to use a splint kit and do extraordinary measures to be able to provide MRI compatibility in a safe way.

The nice thing about the OSI300 system, which is depicted in the bottom here, is that by using these diametrically polarized magnets, the cassette that's in the implant of the OSI300 actually can rotate. And that helps because now as those fields, those strong fields from the MRI scanner create impact on that magnet, that magnet can align and there won't be any opportunity for it to dislodge or move in an untoward way. And so that's what we have to remember. And you can see here on the bottom left hand corner that because you've got two magnets that are sort of in half moon configurations, the top half being positively polarized and the bottom half being negatively depolarized, that the rotation of that allows for good retention. And it just takes a little different technique that we'll talk more about as we move through our slides today. And you can see how the magnetic field then impacts and will change the position of those polarized diametric magnets. And here is a video showing how you would actually use that OSI300 implant in the Osia 2 sound processor to rotate and position. And that rotation back and forth allows for the alignment to take place and then you get that alignment and good retention once that's been done. Now we're

gonna move on and talk about the hardware requirements that are necessary and some of the things that we will provide from Cochlear and what you need to provide. So from a hardware requirement perspective, the processor, according to the requirements of the operating system, the screen resolution needs to be 1366 by 786 pixels or higher. And this is a recommended standard for your computer that you have in the clinic. There needs to be a USB port for the Hi-Pro 2 or Noahlink Wireless. And you need to have 10 gigabytes of free hard drive space in order to accommodate the software. And we recommend a minimum of four gigabytes of random access memory in your computer system, and even better if you can have eight gigabytes. And of course, you'll need a keyboard and mouse. The software that we will provide will install in Windows 10 Anniversary Update versions and higher. So the system needs to accommodate at least Windows 8.1 with a 64 bit operating system. And it needs to be compatible with a Noah implementation of 4.9 or later. And we do recommend that the Noah, if you're using the Noah configuration, be it 4.10 or later. And again, if you have any questions regarding these types of informations, please let us know because we have a software team available that can advise you in terms of that.

But these are the kinds of minimum requirements that are required for your computer to be able to function with the software and work with it successfully. Cochlear will provide what's shown in the slide here across the top, which is the OFS User Guide and Clinicians Quick Guide along with a link for the software to be installed. You'll also be provided with a demo Osia 2 or Osia 2 sound processor and the appropriate Cochlear CS45 programming cable. And I wanna really dwell a moment on that because these programming cables look like a lot of programming cables that you may work with with other manufacturers, especially if you're dealing in the hearing aid world. The important thing to remember is that in both the OSI 2 and... I'm sorry, Osia 2 and Osia 2 sound processor that the pin or plug that you're required to use is a five pin plug and that's delineated by the code of CS45 with five designating five pins. We also use in other legacy processors, a CS44 cable, which is a four pin cable. And

unless you're really careful and scrutinize that and look at it, if you try to attach a four pin cable to a five pin plug, there's a high probability that forcing that will break one of the pins in here. And that would be not a good thing because it would disable your ability to use the processor and it would require repair or replacement. So let's just make sure that when you're using these things that you really attend to this CS45 programming cable. And again, the items that Cochlear won't provide, of course, are the appropriate computer with specifications that we talked about earlier. And you'll also need present in your clinic both a Hi-Pro 2 wireless for wired fittings. And it is required for the first fitting and optionally a Noahlink wireless for follow-up fittings. The wired fitting is required due to power requirements at the initial activation where we're calibrating and establishing the digital link calibration.

And so you'll be using this in that first fitting. But the good news is that once you've done that initial fitting, you have the utility to use that Noahlink Wireless for wireless fittings, which is a much more convenient thing for both the clinician and the recipient who's being programmed. So the other thing that you wanna really consider when you're working with this is that there is sort of a required order of connection. And what we want to do first is make sure that when you're doing this, that you connect the Hi-Pro 2 box to the computer's USB port first. And then once that's connected, you start the Osia fitting software in either the standalone or Noah configuration. And then the third step in the process is to place a battery in the device and start the... Turn it on. Which is designated by a green flashing light at the top of the sound processor. And we want to make sure that you're using a fresh high power implant battery because it does require a battery to be programmed. And then you would connect the CS45 cable to the programming plug and to the Hi-Pro box. And by following this sequence of events, we can provide for you the security and confidence that you're going to have a successful connection and a good fitting session. Now we're gonna move on and talk a little bit about the fitting software itself. And the software that we're targeting today is version 2.1. And I wanna remind you that when

you do install this, you have the opportunity to use this either in a standalone mode or using the Noah implementation, using the Noah framework. So if you get the software for the first time and you install it and you are using Noah, the install will actually install both a standalone icon on your desktop, which will look like this on the left, and it will also install a Noah fitting module in the Noah bar once you open Noah that looks like this. And it has the Cochlear fitting suite designation on it. The important thing to remember is that these softwares are identical but they can be operated in these two different environments. The big difference is that when you're in the standalone environment, you don't have a database per se like you do in Noah, but you do have the facility to store those files. And what you're doing in this standalone configuration is editing your audiogram. And editing your audiogram is part of that standalone fitting workflow. In Noah, you enter your patient demographic information in the Noah registry. And then you enter your audiometric data through the Noah audiometry module. And then you proceed by then selecting the Cochlear fitting suite from the toolbar where all of your modules exist. And then all of the information that was entered from your Noah registry will be pre-populated in the fitting suite so you don't have to do it again.

And then at the end of the fitting process in the Noah configuration, it will save all of your data to a Noah database which is very conveniently date and timestamped so that you have a kind of historical running record in real time to be able to utilize. And so when you're looking at the fitting suite, you'll see that you have maybe two different things to attend to. On the left hand side, you can see that this implementation opens the suite. And in this particular situation, all of our fitting modules have been installed. So the Osia fitting module's here, and the left hand side of the screen, the Baha 6 is in the middle, and the Baha 5 legacy processors are over here on the right hand side. These are individual modules that you have to install. If you just install the Osia module by itself, you'll see a picture that looks like this on the right hand side of the screen that simply shows the sound processor and the Osia implant. So what I really want to point

out and encourage you to do if you're new to this process at all is to utilize and make available to yourself this training mode which is available. And so at the very bottom here in the Osia fitting software, you'll notice a tick box that you can activate which will turn yellow. And it will give you a virtual sound processor that doesn't require to actually have a sound processor attached at all. But it will allow you to do a virtual practice session where you can access many if not all of the features of the software so that you can get some practice and see how things work. And this is watermarked to let you know that you're actually working in a training mode so that you're not confusing that with a real live fitting. And at the end you won't be able to save this training fitting to your data bank or your database because it's not necessary and it will save your disc space.

So it's truly there for you to be able to train on. So I'd recommend that you take a look at that if you're new to it and poke around because that will be a really useful tool for you to have available. And so as you navigate through the software, the first thing you're going to be looking at are previous and next buttons. So you're looking at the BC Select screen here now. And the navigation is really simple. So if you are finished with a step, you just go to the next button over on the right hand side of the screen. And if you need to go backwards you can go back to a previous step very easily. And so under the fitting tab we'll have our first fitting connection, and this is for fittings that will guide you through all the necessary steps so that you can fit a new sound processor to a patient. Any data saved in the sound processor prior to the session will be removed. And it will require that wired interface using the Hi-Pro 2 and the Cochlear CS45 cable. And will read the implant information and set the individual implant to the sound processor associations that need to be present to succeed and proceed with the fitting. And it will set individual sound filters and measure a coil to coil difference through that process of associating the implant to the sound processor. And a bilateral implant association is always gonna occur sequentially and not simultaneously. And it will do the right sound processor first followed by the left sound

processor. Your feedback analyzer needs to be performed to set individual feedback margins. And then a follow-up connection, a simplified fitting connection flow will send you directly to the adjustment screen to perform those adjustments to the sound processor. And in that scenario, the Noahlink Wireless or the Hi-Pro 2 can be used. It's your choice. The wired connection interface is required to access and remeasure anytime you need to repeat or exercise the digital link calibration measurement. Under the setup tabs, you can create a patient file which would allow you to prepare a patient file and save prior to a fitting session. The file will be prepared without a prescription and the patient is not required to be present to set up this new patient file. So that can save you a little time on the front end if you're so disposed. Minimum information required for fitting is the audiogram. And you can view a file.

So if you're looking for a file and you just want to have a look at it, you can check the view file. It will allow you to look at that file without connecting to the sound processor. And then if you need to reset to the out-of-box settings, this will remove or wipe all the patient data from the sound processor and reset the gain in features to the out-of-box settings that the device gets shipped with. And this can only be done when you're using it under a wired configuration. And then you also have the option to set up a replacement sound processor which will guide you through the setting and allow a setup of the replacement of that sound processor. And this gives you kind of an overview or a checklist of the activity screens and what you can do that we just described here. And so this is a good thing to revisit because you can see what you can do. What's really nice is in the follow up setting, once you've done that, it immediately takes you to your adjustment screen where you don't have to work. You can still access these other activities, but this just streamlines your workflow for what you're trying to accomplish. And we've tried to think ahead and make this easy for you. Now we're gonna move on and talk a little bit about the fitting steps that are involved. There are really two mandatory steps and one recommended step in this process to provide accurate gain values in the software. The other two steps are really strongly

recommended to run either the BC Audiogram or the BC Direct. And it needs to be filled out in order to get a prescription to occur. The digital link calibration sets the game baseline. When using default values, you might need to do some more fine tuning. So we really do require, not require, but really strongly urge you to use that digital link calibration which customizes that to the patient's connection. If not run, the sound quality for the patient will still be good, it's just that by using default settings in this and bypassing the digital link calibration, you're gonna be operating with average values. The feedback analyzer allows you to establish individual stable gain and it's needed to calculate how much gain can be given before there's a risk of feedback. There's a common misconception that Osia devices don't produce feedback, but I wanna remind you that anything that's acoustic and vibrating has the potential if provided with a requisite amount of gain and output to actually link to the microphones externally through both bone conduction and tissue conduction.

So a feedback can always rear its ugly head. And running this feedback analyzer allows this individual stable gain configuration to keep you out of trouble with feedback, in most cases. And then when we're using audiogram data, we really are keying on using the unmasked audiogram to be able to prescribe the correct game values for the patient. And unmasked is due to what we want the real hearing to be through that connection point. Bone conduction sound waves will always find the shortest way and reach the best ear first, hence the need to prescribe for best hearing. BC Select is needed to really tell and is required because it's telling the software how the sound processors are gonna be deployed either as a mixed conductive loss or a SSD loss. And of course our BC Direct or in-situ bone conduction threshold measurements are highly recommended because this allows for customization and more accurate targeting, which will save you some time in the fine tuning process in the final analysis. So in terms of digital link calibration, this is part of that first fitting where the implant sound-processor association is done. And you can see that the serial number is populated here on the left hand side. If you skip the DLC, it will give you a

strong recommendation to do this calibration. But for patient comfort, there's a possibility to skip this because in the DLC, the device does produce some audible sounds. But experience has shown that with this calibration skip, the need for fine tuning does potentially increase. So there are no reports that it's affected sound quality in anyway, but it's always best to do it if you can. And now, all of this is in one screen with an indication when to run. And individual implant calibrations are set to individual gain baselines. And this baseline means that we can reduce known residences that will move when the implant is set to that BI300 fixture that Osia integrates into the skull and gives a better gain baseline. And we wanna also let you know that this will allow for measurement of coil to coil difference, and will give you a magnet recommendation. So we really want to encourage you to consider that as part of that fitting protocol. And we do wanna also remind you that the patient does hear pure tones that might be perceived and some may even report them being slightly uncomfortable or slightly loud. And if this is a problem, you can then elect to bypass or skip this if the patient finds it uncomfortable.

No effect on hearing outcome, but some more fine tuning may be necessary a result of skipping this. And what I really want to point out on this slide here is that we're recommending that the magnet strength when you do the Osia 2 sound processor with the OSI300, is that you select either a three or a four strength magnet, which gives you very stable connection. And as a good fitting tip from an experienced Osia fitter, I always elect to those stronger magnets during the initial activation and fitting protocol because the last thing you want to do in that process is have that fall off in the middle or dislodged where you have to potentially start over or repeat steps in the fitting flow. So we do recommend with the Osia 2 sound processor and the OSI300 implant that you select a three or a four magnet. But remember that in this step and process, you're actually gonna get a recommendation based on the coil to coil distance. Keep that in mind so at the end of your process, once you've saved and you're orienting the patient, you can go back and change to the recommended magnet strength and it will allow for

you to have the patient leave with the appropriate magnet strength. Your BC Audiogram is really there to enter. And this is what we recommend that you use as these unmasked bones are recommended for true hearing. And you will enter those in the screen that you see just depicted here. BC Select is a really important step because it's mandatory in that you really have to tell the software how this is going to be fit. As we mentioned earlier, you have the choice of selecting either mixed or conductive loss or SSD. And you also have the opportunity to describe either a child or an adult fitting. And this will set some of your preset automatics for you without you having to think about it. And if you're doing a bilateral or bimodal fit, you want to check the box there below in the center of the screen, which gives you the opportunity to account for binaural summation either in a bilateral Osia fitting or one where there may be a hearing aid involved on the other side, which will reduce your gain targets by roughly 3 dB in each ear. But you have to tell the software in this step how the device is going to be utilized, otherwise it doesn't know how to proceed. And then of course BC Direct is this in-situ audiometry function that we strongly recommend that you carry out.

You have the little index marks at the bottom where we recommend that you measure thresholds at five, one, two, four and six, as a minimum. And I would point out to you that you're able to use keyboard shortcuts which make it quite easy to present the tones using the space bar. And you can use the up and down arrows to increase and decrease the level of presentation. And the right and left buttons to either move the frequency lower or higher. But these measurements are really key to establishing a very accurate targeting formula. And if the child is too young or the patient is uncooperative or can't do this, you can actually estimate what the bone conduction thresholds are. The only caveat is that you may end up having to do some additional fine tuning when you actually go into the activation state. But this tool is actually quite useful and something that we highly recommend that you use. And I mentioned, we talked about the Feedback Analyzer. This is where we're actually doing open loop gain

measurements at all of the adjustment points or gain points in the software. And it takes usually from 1 to 12 seconds to occur. The device actually produces kind of a buzzing saw tooth like noise that can be fairly loud but would not exceed 73 dBHL. We typically like to warn the patient ahead of time that they're going to hear this and we also ask that they not speak and that there be a quiet environment when running that because that can affect the accuracy. But once that is run and completed, an individual's stable gain curve is established and the software will automatically try to keep you out of the feedback regions that you might wander into if you didn't have that established. And then once you're into the fitting itself, it will default to a view of what we call the hearing mentor. And this is a really good tool at additional activation because instead of having to worry about all the individual adjustment attributes that you might wanna access, you've gotta divide it into categories of loudness, sound quality, own voice and performance and noise. And by using the sliders that are depicted here below the fitting grid, you can adjust those and this will adjust multiple attributes.

Typically, new users don't have enough experience to be able to give you an accurate description of what they want. So this tool could be used in a very gross or rough way to get you in the ballpark as far as your targeting formula and preferences are. But you also have the opportunity to slick into the fine tuning screen, which gives you much more adjustment capability. And here's the picture of that fine tuning screen. And that will allow for you to adjust gains for loud and soft sounds relative to 50 and 80 dB input. And you also have the ability to adjust the MPO. You also will be able to view the compression ratio, which is really just allowing you to see what it is. And that's gonna be impacted by the relationship or the gain between 50 and 80 curves. And you actually have the ability to expand this grid into all 10 frequency handles. And this gives you the ultimate control that you might have. And I always like to say that this is a good place for your follow-up fittings to go 'cause once the patient has been using the device for a while, they may come in with more specific descriptions of what they like

and dislike about the sound quality and then you can utilize that description to target the fine tuning adjustments that would be most appropriate for that particular patient's complaint. You also have the ability to place additional programs. You have different program choices. The first slot is always the default slot, it's usually selected to every day. But you do have pull downs that you can use that will take that everyday program and modify it for noise, music, and outdoor program and also if you're going to be using the Aqua+ accessory underwater. And you can add multiple programs that can have up to four in the device. And then you just have to make sure that you educate the patient at orientation what's in those different settings so that you can access those settings. And then for your convenience, there's a wireless setup screen in the software that will guide you through how you would like to do that. And so this particular slide is depicting a pairing of a Cochlear Mini Mic 2+. Keep in mind that you can also still pair these devices outside the software, it just depends on your particular preference. The digital link settings that we have available in the software as part of that DLC thing are really set up in the event that a patient, and it's an unlikely event, but an event where the patient experiences audible system distortion. And so in our OSI200 version one and two scenarios, we have a low pass filter and a system noise manager that can be accessed. And what you want to do is turn that on.

But again, this is a feature that you only have to deploy when you are in a scenario where the patient may be experiencing some audible system distortion that you haven't been able to program out with the other fine tuning. And we wanna remember that the access to the low pass filter activates the noise management system. So when you do the low pass filter in isolation, it can have an adverse effect on battery consumption. So we have it built and automated so that it should not put you in that kind of a situation. But anytime you make these adjustments in troubleshooting and in working with patients that might have some system distortion, we do recommend that you go back and remeasure your bone conduction direct and repeat your feedback analyzer because that can impact the fitting because these features will

actually change some of the gain attributes. And again, wanted to point out that that's a feature that's embedded in the new software. And at the very end of the process you have the opportunity to save to the sound processor and it will give you the opportunity to see a summary of what's saved. And this will give you the ability also to save what we call an encrypted file format. But you can also select an unencrypted file format or you can actually even de-identify the file that gets saved to the sound processor. And it's just important to understand that this is important, especially if you're going to be requiring support from Cochlear. Because sometimes we want you to send us or export this file and send it to us so that we can help review this and perhaps provide you with some recommendations for how you might approach any untoward complaints that were unsuccessful in your fitting session. And if you encrypt this, it will ask you to provide a password. So if you email that file to someone at Cochlear, you need to also provide in a separate email the password or you have the option to default to a non-encrypted format. But we could then open the file and look at it in a view format and make some recommendations. So keep that in mind as you're working in the save format. I wanna also point out that you have the ability at the top portion of the software to access data logging. And a point of confusion sometimes is this disable/enable button.

Data logging in Osia operates all of the time. You cannot turn it off. What this enable/disable button allows you to do is to either enable the view of data logging or disable the view. But what's nice about data logging is it will give you a general usage overview, it will show you the percentage of time in each of the programs that you may have provided, it will allow you to see how the scene classifier has been behaving during those sessions, and it will give you average hours of use and average hours of streaming and what kinds of volume controls have been done on average. So this will give you a snapshot of how the patient is working with the device. And that's again, found at the data logging button on the top right hand corner of the toolbar. So I want to summarize here that we want you to remember that a wired connection using the

Hi-Pro 2 box is required for all initial fittings. And anytime you need to apply firmware updates, it may be available. All subsequent fittings can be done with your wireless interface, which adds convenience. You should also remember that magnet strength should be monitored closely in the initial weeks in activation. And you wanna look at that tissue to make sure that there's good health under the magnet because that's retaining. If there's redness or complaints of burning or heat, then that's a clear indication that their magnet may need to be reduced in strength. And then conversely, if there's a report that the device is not staying stable on the head and falling off, that potentially a stronger magnet may need to be done. And of course, at the end of your process, you want to counsel the patients about how to use wireless devices. Other retention options that are available and outlined in our resources and discussions around battery life and battery life management and basic device operation. There are support materials available here that you can see and their links that are available. There's a software user guide, there's a sound processor quick guide, there's also a candidate selection guide and an OSI 2.1 disc reference, which is really handy as you're familiarizing yourself with the use of the software. And with that, I wanna thank you very much for spending time with us today and giving us the opportunity to give you a walk through the Osia fitting system and software. And I wish you a good day and I hope that this was useful to continue your education. Thanks and have a great day.

