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Troubleshooting the most common fitting issues with modern Beltone devices Part 2

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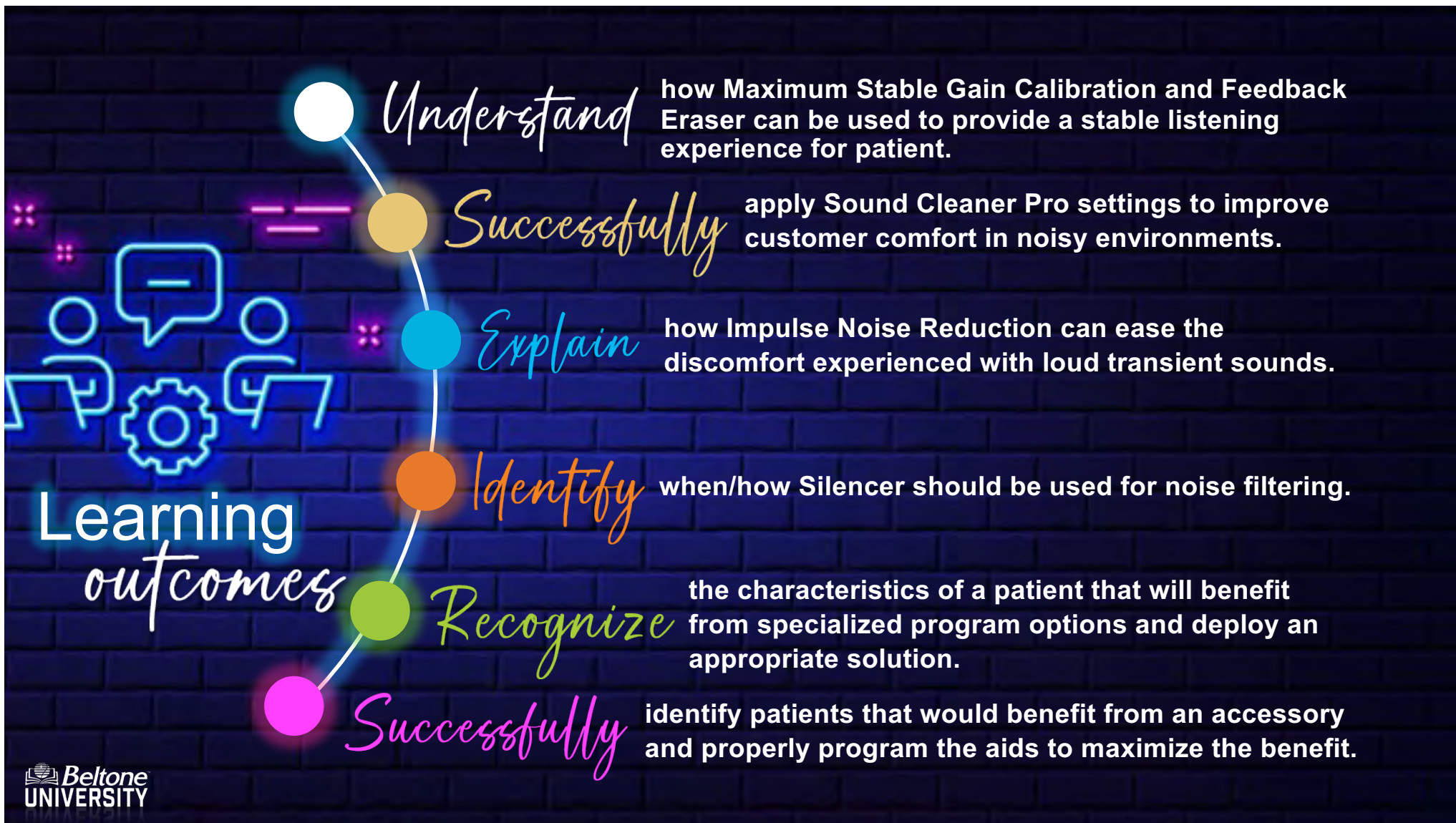


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continued

Conclusions and take aways

- With proper occlusion and MSG curve
Feedback should not be a problem.
- Patients pay for noise filtering
Use Sound Cleaner appropriately.
- Impulse Noise Reduction keeps you from
Over compressing. Use it first.
- Eliminate circuit & steady state sounds
with Silencer, but don't over do it.
- Most patients these days don't need
use multiple programs.
**Know your patients and fit appropriately.
Lower end products are more likely to
need additional programs.**
- Accessories are the most forgotten,
most powerful tools
**for helping patients in many
specific environments.**





- **Learning Outcomes**

- Better understand The Maximum Stable Gain Calibration and Feedback Eraser can be used to provide a stable listening experience for patient.
- Successfully apply Sound Cleaner Pro settings to improve customer comfort in noisy environments.
- Explain how Impulse Noise Reduction can ease the discomfort experienced with loud transient sounds.
- Identify when/how Silencer should be used for noise filtering.
- Recognize the characteristics of a patient that will benefit from specialized program options and be able to deploy an appropriate solution.
- Successfully identify patients that would benefit from an accessory and properly program the aids to maximize the benefit.

MSG- Maximum Stable Gain
Control the Feedback

- 3 systems- Safeguard FB Control Prior to running a curve
- Passive controls (Predictive logarithm from the MSG curve)
 - Active controls- Half step phase cancellation for situational problems

Safeguard works until you run your MSG curve.

Use the right dome and allow occlusion to work in your favor.

Once you run the MSG, it slows the roll- explain how FB happens. Adjust from mild to Whistle stop to speed up the reaction time

Music mode for music

What not to do to control FB- Don't drop HFs. Don't drop MPOs. Don't reduce OAG

Do- Use an appropriately occluding dome, Run the MSG curve in a situation that replicates problem areas, Run MSG regularly

Sound Cleaner Pro

Spectral subtraction system for preventing the amplification of non speech weighted cues

4 levels- mild- 2dB, moderate- 4(5)dB, considerable- 7dB, Strong- (9)10dB

Per environment is best choice when available.

This is a “Comfort” feature as opposed to a noise management feature. But it helps tremendously in noise

People pay for noise filtering

In an all around program, don’t use an overly aggressive level. In a Hear in noise program, go big or go home

Be careful to not over filter. “Noise” is the color of life. It should be present

Quik SIN helps to show necessity of this feature.

Share a Montana story- extreme but relevant

Impulse Noise reduction

Fast acting compression system. Fast attack, fast release

Used for people who have sensitivity issues and are around impact noises.

This is underused but often over applied. When people do use it, they tend to go all in or not at all

A provider asked me about a patient that is a carpenter and wanted to know about how to set INR

Another patient is a cook in a restaurant. How did I set it?

Use it for transient noises that are occasional. If there are constant noises, its not transient.

Not for hearing protection. Not for shooting program...

Silencer- Expansion

Expansion is when you start to reduce the gain provided before you reach the knee point in WDRC. Originally designed to minimize microphone noise or circuit noise.

Great for strong LF to minimize circuit noise

Used for steady state sounds

Fans, air conditioners, computers, road noise, circuit noise

Don't over do it or patients hear a fading and surging

Truck drivers and benefits come with a warning.

Custom programs

- Know your patients
- More likely to be needed in lower end products
- In a 17, you already have 7 programs. Do you really need more?
- Most benefit comes for situations when a patient spends several hours a day/week in a particular unique environment.
- Make sure the patient is capable of using it.
- Most patients never change the programs they have, don't confuse them with more than they need.
- But, if needed, take the time to ask the questions to ensure your building the right program.
- RCL can be a great way to fine tune these
- Outdoor program for fishing/golfing
- Music program for musicians etc...
- Simpler is better for the vast majority of people

Accessories and when to use them

- Again, this starts with knowing your patients.
- QuikSIN is the best way to know early on how much help a patient will need in noise.
- Start with the basics- Phone link for people with flip phones and other non compatible phones. Great solution for people hesitant to upgrading or switching to a new phone.
- Remote- very powerful for patients with dexterity issues and non compatible phones.
- TV link for those who have crappy acoustics or struggle with the tv in any way. If a patient struggles with hearing/understanding TV we know that the benefits are there. Between 30-40% better in noise and 5% better in quiet... I always recommend the Remote control with the TV as it is always on and then is no need to open the app on a phone when volume on the TV spikes.
- MyPal Pro is a power tool for anyone with more than 8dB of SNR difficulty. When a patient needs help, set the expectations accurately and then offer help
- With MixIn streaming, its harder than before to set volume changes for streaming. Create a custom program for streaming with the Phone/TV link?MyPal... Often you need to add LF gain to offset some of the lack of streaming base. I created a TV program for myself and then go to that program before I start my streaming. It adds a step but only just...

Conclusions and Take aways

- With appropriate occlusion and a recent MSG curve, feedback should never be a problem
- Noise filtering is one of the items patients pay for. Know your patient's lifestyle and use Sound Cleaner appropriately
- Impulse Noise Reduction keeps you from over compressing. Use it first!
- Eliminate circuit noise and steady state sounds with Silencer but if you over do it, the patient will notice
- Most patients these days don't need/use multiple programs. Know your patients and fit appropriately. Lower end product is more likely to need additional programs
- Accessories are the most forgotten, most powerful tools for helping patients in many specific environments.