



# **Dedicated Music memory**

A memory environment that can be selected

- A package of functionality including:
- · A fitting rationale optimized for music · Compression optimized for music
- · Controls in Inspire optimized for music adjustment



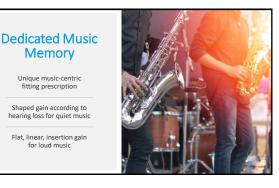


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Multicore Twin Compressors Giving speech and music the individual attention they deserve for an exceptional listening experience Audible Range 100 Music 80 60 Speech 40 100 500

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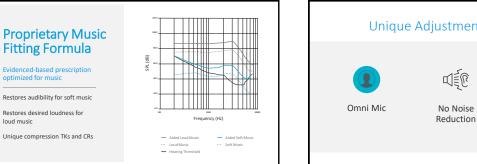
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for loud music





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loud music

# **Music Memory**

Fitting and evaluation of Music memory is subjective

 Individual variability of desired sound is likely much higher than for speech

 No objective measures exist for evaluating a hearing device fitting for music

Adjustments will need to be made based on patient feedback regarding music sound quality



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# Music Memory Controls

Dedicated Music memory can be programmed in multiple memory banks of the hearing device

Music-Centric controls

 To facilitate communication between patient and professional for addressing subjective music listening reports



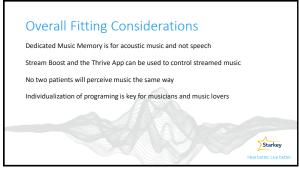
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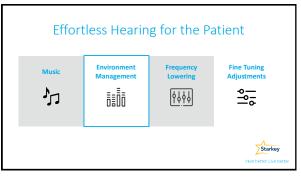


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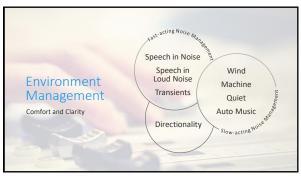


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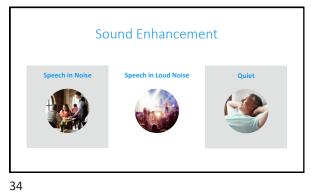


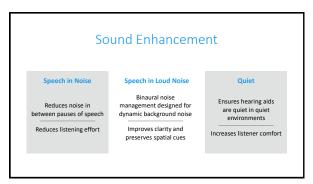


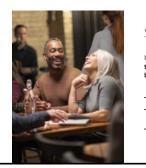


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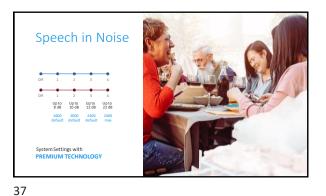


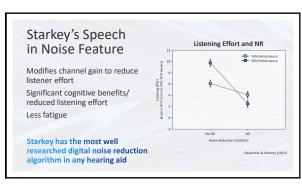
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# Speech in Noise

Ultra fast processing to instantly track and filter noise even between the syllables of speech

- Active 100% of the time
- Makes very quick decisions over a wide range of input levels
- Recognizes speech vs. noise patterns







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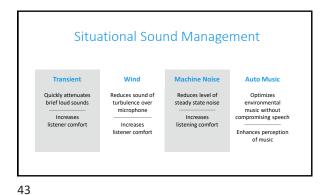
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Enhancing expansion with our patented fast-acting noise management, *Quiet* makes hearing aids quieter in low level environments









# **Transient Sounds**

- Sensorineural hearing loss can result in a reduced dynamic range and create an abnormal growth of loudness for sound
- Recruitment makes individuals sensitive to loud sounds
- Brief impulse sounds can be
  - uncomfortable or even jarring
  - Glass breaking
    Dishes clanging
  - Hammer pounding Door slamming

Wind

Designed to keep patients comfortable in windy environments



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# Machine Noise

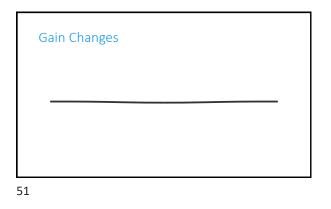
Designed to deliver comfort for loud steady state noise

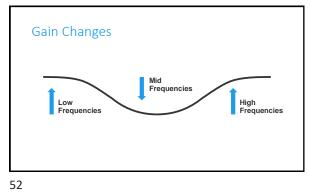




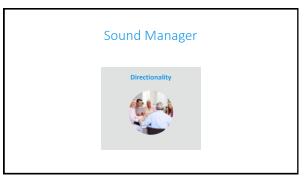
# Auto Music

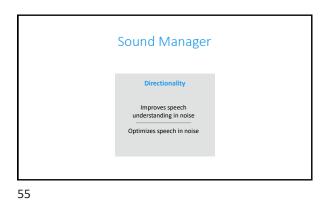
Designed to optimize the sound quality of background music while prioritizing speech and maintaining comfort

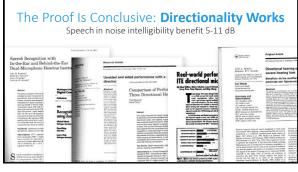


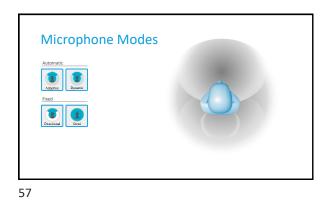


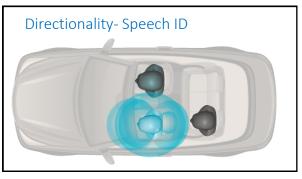






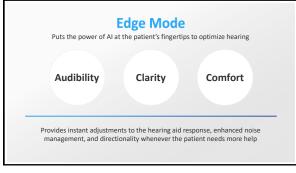




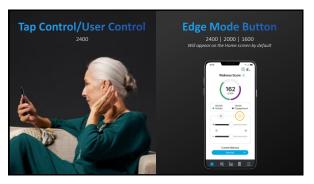


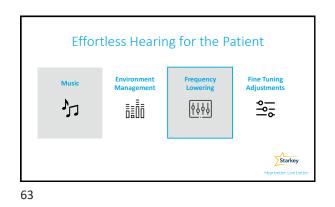




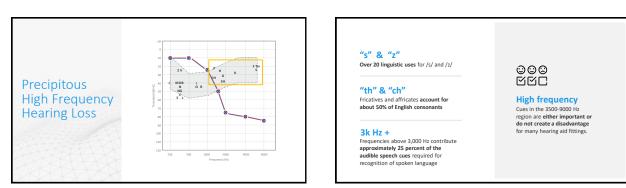










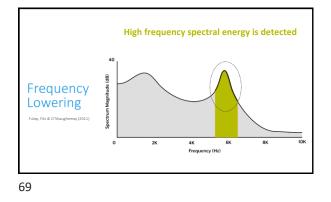


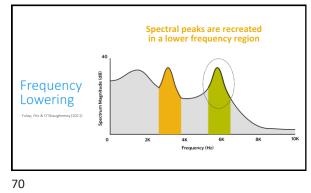


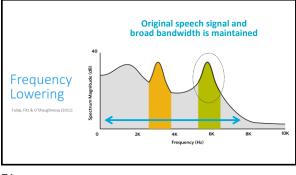


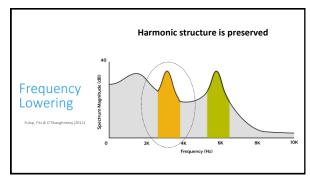


Preserves the harmonic nature of speech

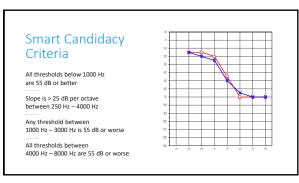












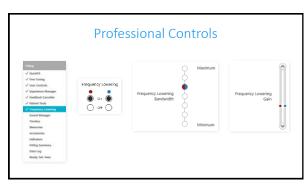
Starkey

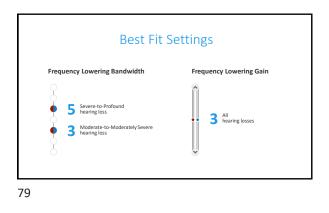


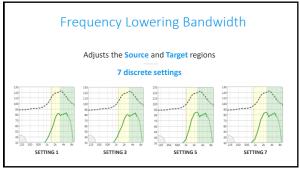


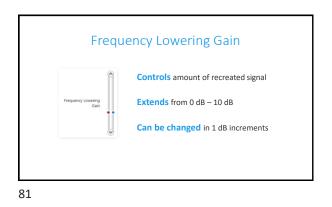














Some patients will report altered sound quality with the feature engaged

The goal at the time of fitting is to focus on the value of the feature and tolerance for it

Use a **behavioral validation** tool to validate improved word recognition score

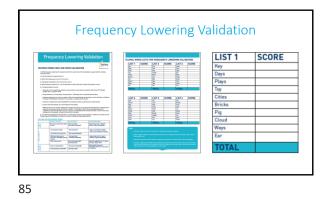
Fine tuning for sound quality should occur at the follow-up visit

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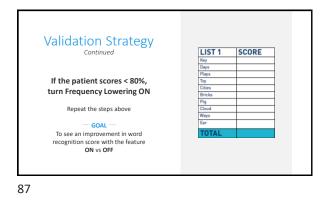


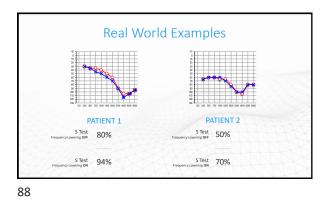


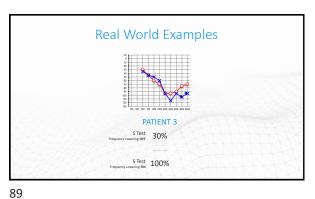
"A listener's reaction to a new processor at the time of fitting may change after they wear it for a few weeks. If I fine tune only in response to their initial reaction, I might tune away any possibility that they would get benefit over time. Obviously, the initial fitting needs to be physically and acoustically comfortable, but can also offer some new audibility that the wearer agrees to take home." Susan Scollie, Ph.D.

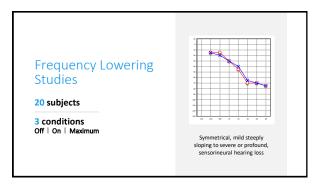






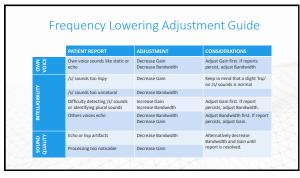


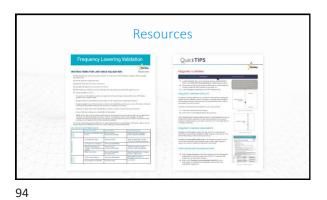


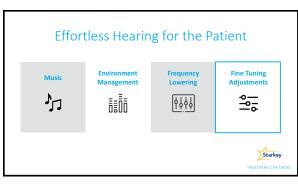




Win	Helps establish best bandwidth and gain settings
Win	Validation of benefit
Nin	Patient counseling









### Patient Concern

Mrs. Jordan has a severe hearing loss and has been fit with Evolv AI hearing uses and AP earmolds. She is hearing well but reports that sometimes things are "oddly unnaturally quiet" especially when she's at home.

What can you do in the Inspire® X software to help her?



# Poll

### Which feature would you adjust?

**Patient Concern** 

Ms. Social has a lot of friends and a large family, so she is always on the go doing something.

She enjoys dining out quite often, but reports hearing conversation at the tables behind her as much as the

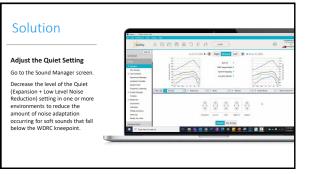
people at her own table. She's wondering if we can fix that for her.

- A. Speech in Noise
- Quiet В.
- c. Wind
- D. Machine



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# Poll

What adjustment would you make to help your patient with her report of hearing people at another table better than those she's sitting with?

A. Increase her MPO

- B. Change Directionality in her Restaurant Memory to Omni
- C. Change Directionality in her Restaurant Memory to Directional D. Ask her to have her friends at the table speak louder









### Patient Concern

Dr. Landon is taking dance classes with her husband and wants to know if there is a way to manage music so that it doesn't overpower the conversation with her husband or the instructor. What can you do in the Inspire<sup>®</sup> X software

to address this issue?

Starkey

### Solution

### Adjust the Auto Music Feature

- Access Auto Music from the Sound Manager page
- Click on the Details under Situational Sound Management
- Decrease the Auto Music setting so the music is not as robust.

Situational Sound Management		Right Einsund Left						1 2	2 3 4 🏺		
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# Patient Concern

Ms Smith reports the sound in her hearing aids will sometimes fade in and out....this is very bothersome to her."

How can we address this issue in Inspire?

when she is talking to her friends, the /s/

What can be done to help her with this?

sounds are a bit lispy.



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#### Patient Concern Ms. Jones is wearing Evolv AI 2400 RIC R hearing aids, has a precipitous high frequency hearing loss and reports that "/s/ sounds are too lispy" Which frequency lowering adjustment would you make?

A. Increase FL Gain

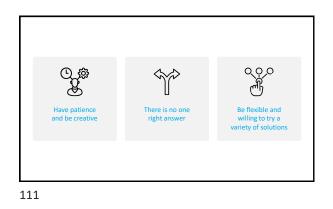
- B. Decrease FL Gain
- c. Increase FL Bandwidth
- D. Turn off frequency lowering

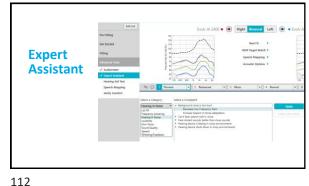






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Questions Judy Grobstein, AuD-FAAA, MACAud Judy\_Grobstein@Starkey.com





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