

INTRODUCTION

- Class Description
- In a joint presentation given by Widex and Audiology Systems, the importance of Probe Microphone Measurements (PMM) as well as the different types of verification testing the Aurical PMM can performed. In addition – four signature features in the Widex Unique 440 hearing aids will be discussed and verified using the Aurical PMM System.



LEARNING OBJECTIVES

- Participants completing this course will be able to:
 - 1. Identify two reasons why PMM testing plays an important role in hearing aid fittings
 - 2. Identify three different testing protocols for PMM testing
 - 3. List the benefits of three Widex signature features





AGENDA

- 5 minutes Introductions
- 10 minutes Why Verify and Overview of the Auricle PMM
- 10 minutes Widex Fitting Rationale and Verification
- 10 minutes Widex RT Speech Enhancer and Verification
- 10 minutes Widex Audibility Extender and Verification
- 10 minutes Widex CROS and Verification
- 5 minutes Conclusion and Questions





WHY **VERIFY?**

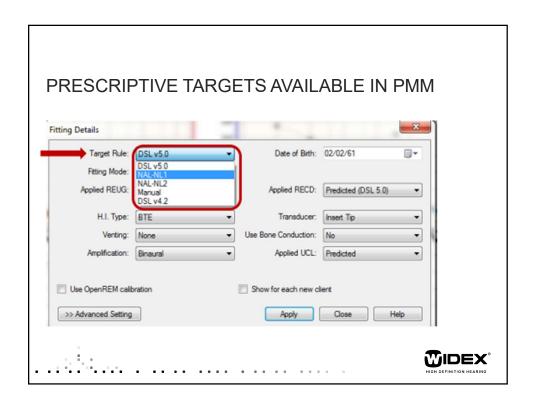
- "How does it sound?" is no longer enough
- Verification demonstrates audibility and comfort
- Verification can provide evidence that special features are working correctly
- It saves the patient and clinician time
- Third party payors expect it
- To adhere to professional standards of "Best Practices"

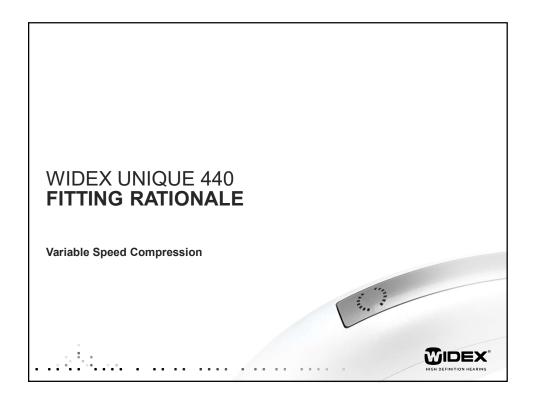


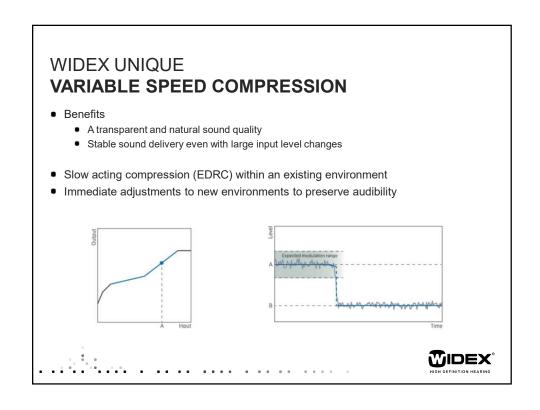


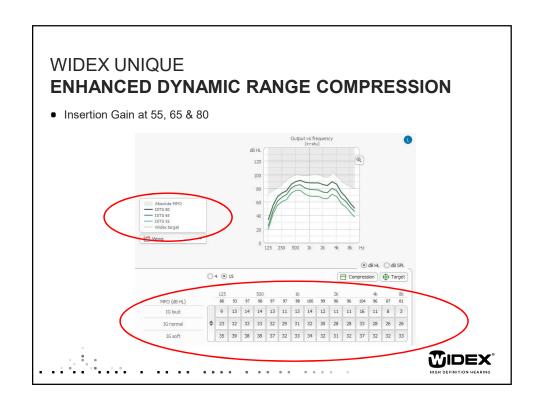




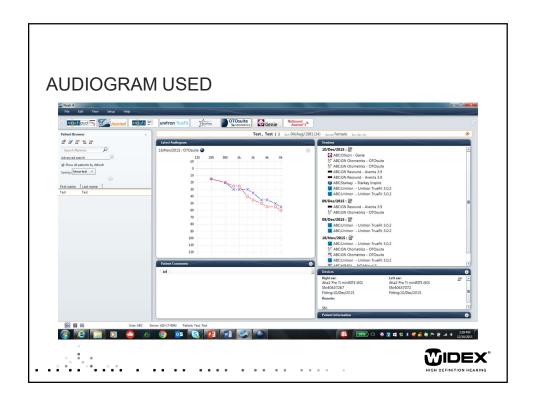








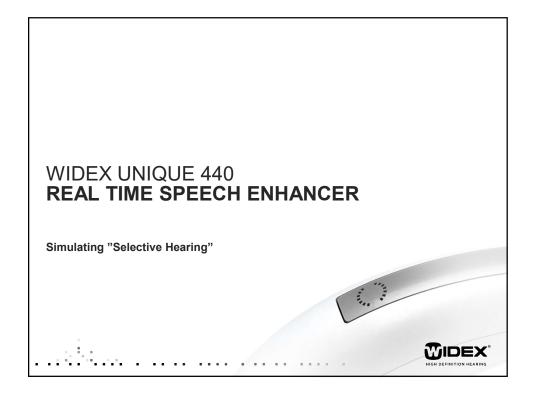




WIDEX FITTING PROTOCOL

- Leave the default to NAL-2 in Otosuite, leave the aids in the proprietary fitting formula in Compass
- Set soft speech, average speech, and loud speech to 55 dB, 65 dB, and 80 dB to match their input levels.
- Run MPO
- Adjust accordingly.





WIDEX

REAL TIME SPEECH ENHANCER

- Benefits
 - Concentrate on and follow speech, even in a noisy situation.
 - Greater comfort in noisy environments when speech is not present.
- Calculations are based on a statistical analysis of voice & unvoiced speech and the Speech Intelligibility Index
- Applies optimal gain for speech understanding
- Precise activation of noise reduction





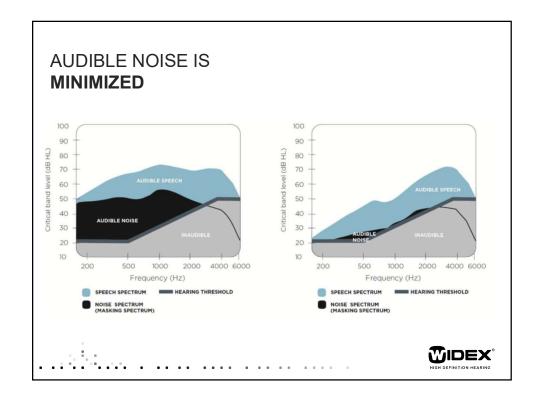
OPTIMAL GAIN FOR SPEECH UNDERSTANDING

 Real Time Speech Enhancer only adds extra gain to dominant speech, not background speech babble.

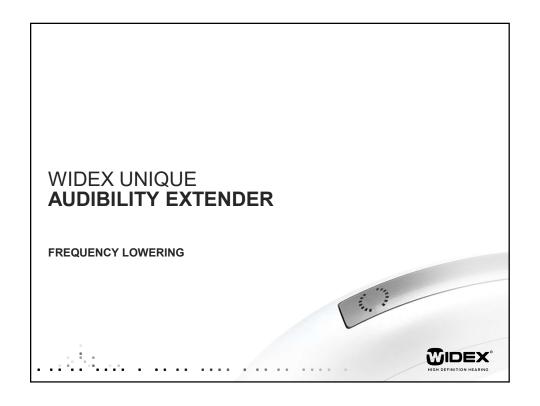


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THE CHALLENGE HIGH FREQUENCY DEAD REGIONS

- Benefits
 - Improve speech perception and production for those with severe to profound high frequency hearing loss
 - · Quick patient acceptance of sound quality



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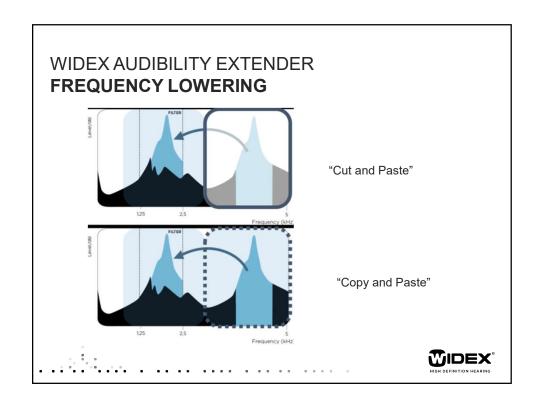


WIDEX UNIQUE AUDIBILITY EXTENDER

- Linear transposition moves inaudible high frequency information down to an audible region.
- The most significant sound is automatically selected
- It is active for both voiced and voiceless signals.
- Harmonic relationships are preserved.
- The transposed signal is mixed with the underlying signal to preserve a rich and more natural sound perception.

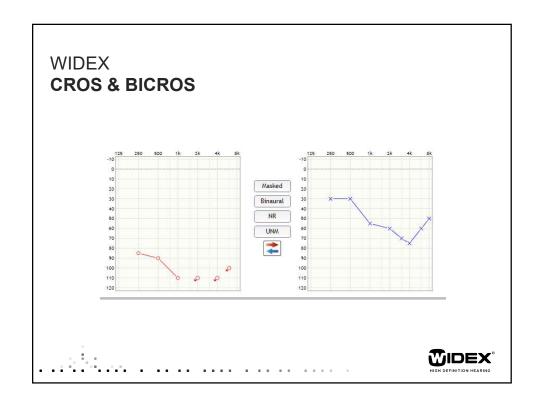












WIDEX

CROS & BICROS SYSTEMS

- Broad frequency response in transmitted signal
- On/off control
- Adaptive directionality or omni transmitter microphones
- Excellent battery life







WIDEX UNIQUE CROS & BICROS

- Benefits for those with single sided deafness
 - Reduces negative impact of head shadow effect
 - Improves intelligibility of speech in noisy situations
 - Enhances ease of communication in many everyday situations







