

Listen Up

You wouldn't want to wear someone else's glasses...

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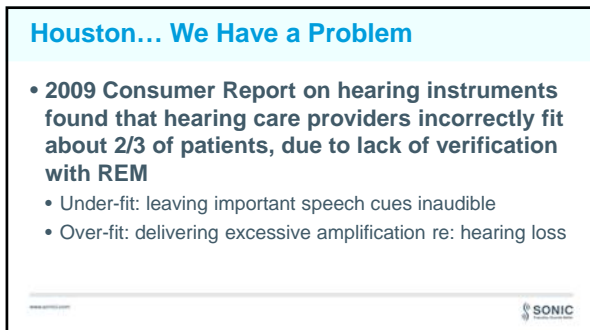
In Agreement

- International Hearing Society (IHS)
- American Academy of Audiology (AAA)
- American Speech, Language Hearing Association (ASHA)

• All recommend real ear measurements for the verification of hearing instrument fittings

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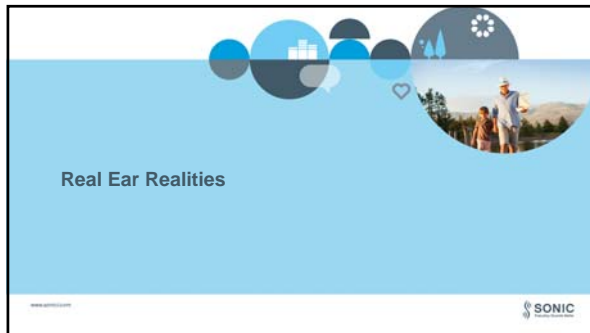


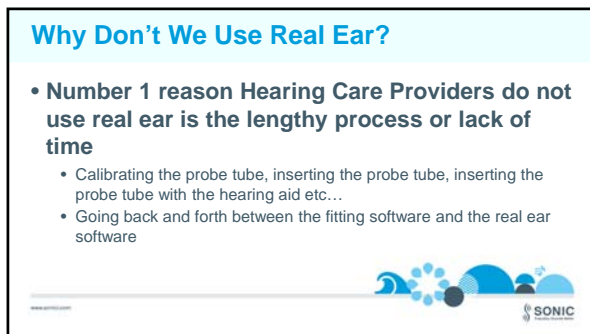
Houston... We Have a Problem

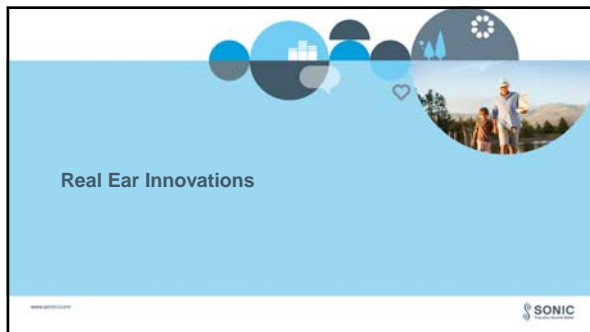
- 2009 Consumer Report on hearing instruments found that hearing care providers incorrectly fit about 2/3 of patients, due to lack of verification with REM
- Under-fit: leaving important speech cues inaudible
- Over-fit: delivering excessive amplification re: hearing loss

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Real Ear Fit from Sonic

• Real Ear Fit

- An effective, efficient and easy-to-use verification tool embedded in the EXPRESSfit Fitting Software
- An automatic match to an individuals unique targets reducing the need for time-consuming manual fine tuning

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Real Ear Fit from Sonic

• Compatible REM systems

- MedRx Avant Speech
- MedRx Avant Speech +
- MedRx Avant REM sp
- Interacoustics Affinity
- Interacoustics Callisto

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Real Advantage

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Efficiency

- Automatic adjustment of the response to match prescriptive targets within EXPRESSfit Fitting Software, without switching to a separate REM software

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Ease of Use

- Easy to understand prompts taking the guesswork out of complex verification protocols

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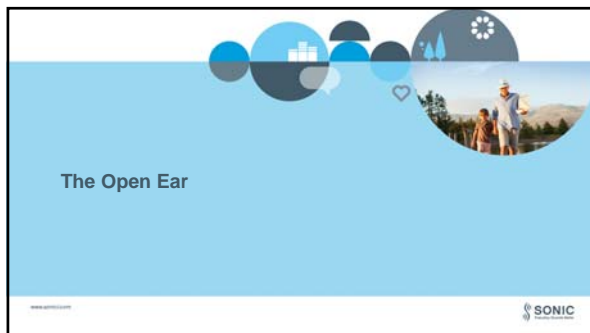
Accuracy

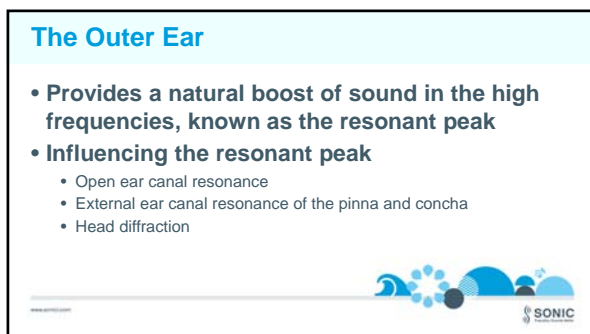
- Each individual ear canal volume is measured to create a personalized and accurate fit to target

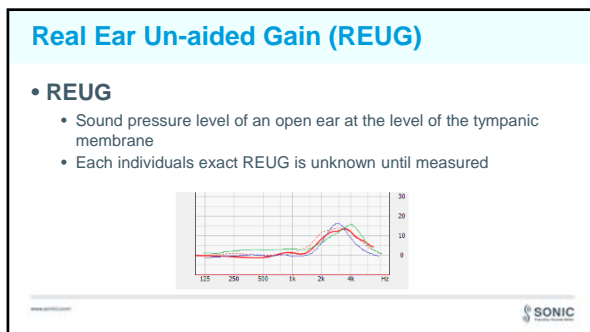
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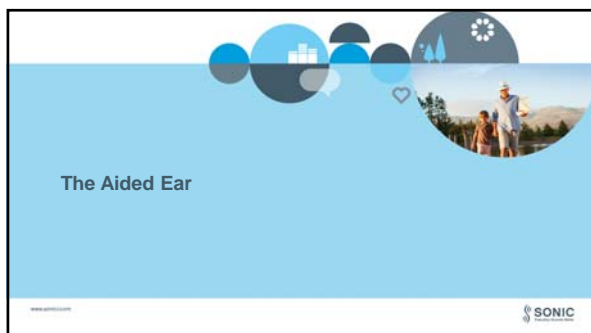


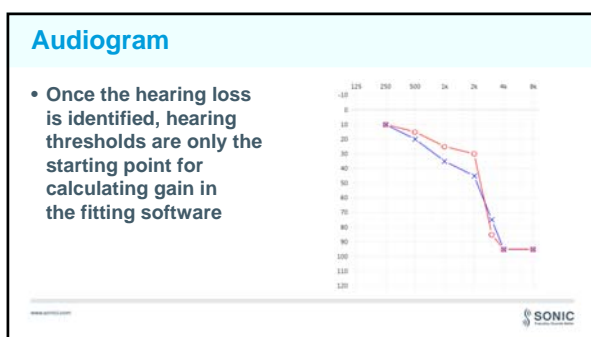
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In-situ Gain

- The difference in SPL at the tympanic membrane versus free-field
- In-situ gain targets influenced by electroacoustic parameters such as:
 - Vent Size
 - Hearing Instrument Style
 - Age
 - Fitting Rationale

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Insertion Gain

- With In-The-Ear style hearing aids, the space taken up by the instrument impedes the open ear gain
- Fitting software overcomes this loss by applying the appropriate insertion gain (aided gain – unaided gain)
- Insertion gain targets can vary by fitting rationale for the same exact hearing loss

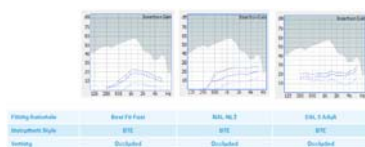


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Fitting Rationales

- 3 fitting rationale insertion gain targets (50 dB flat loss)



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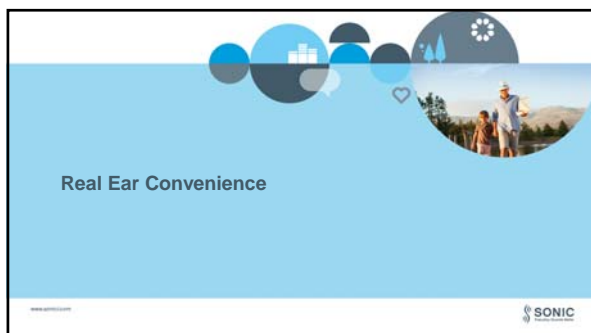
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Real Ear Aided Gain (REAG)

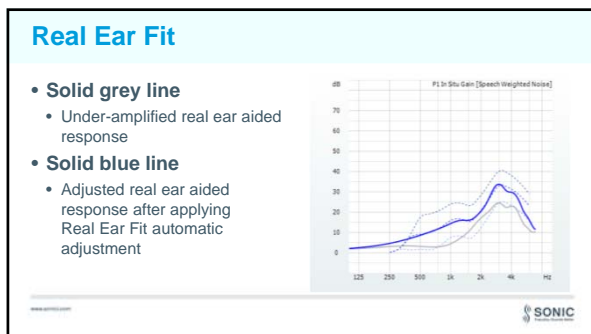
- The first fit on a hearing instrument remains an approximation to prescriptive targets unless REM confirms the gain in the aided ear
- Over or under amplification may be occurring across the frequency range
- Manual fine tuning is commonly needed to match the response to the prescribed targets

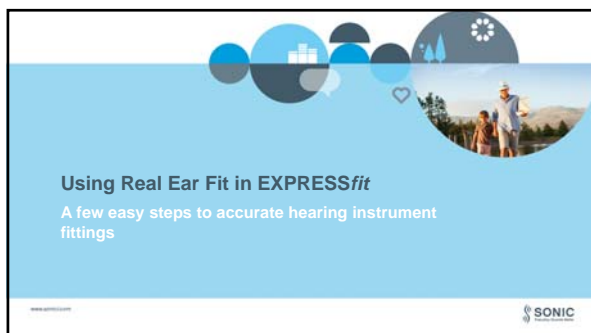
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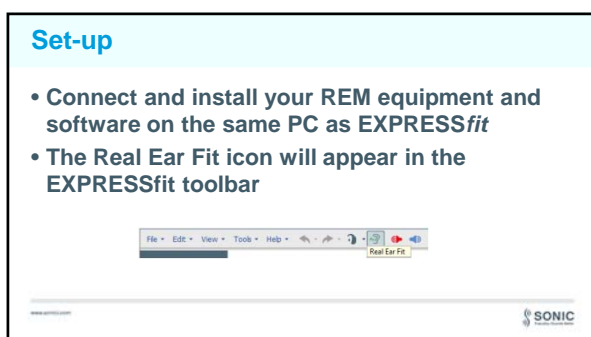
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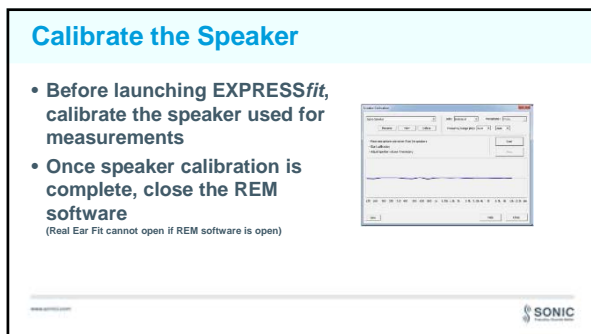












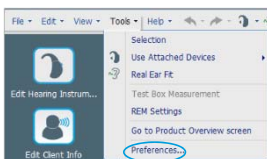
Start

- Open EXPRESSfit 2014 and detect instruments
- Ensure that the selected acoustic parameters are correct for the specific patient



Customize Preferences

- Customize Real Ear Fit preferences under the Tools menu



Customize Preferences

- Select Measurement Module, Graph View and Additional input levels
- 65 dB input is required while 50 and 80 dB input levels are optional
- The calculated corrections will be applied equally for all input levels



Open Real Ear Fit

- Launch Real Ear Fit under Tools, or on the EXPRESSfit Toolbar



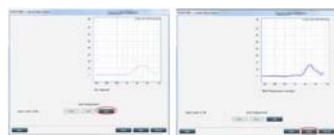
Calibrate Probe Tube

- Hold the reference mic one meter from the speaker, select right or left
- When finished, select 'Next'



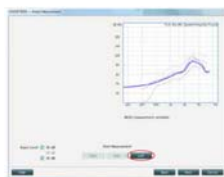
Measure REUG

- Perform otoscopy, then seat patient one meter from the speaker
- Insert probe tube into open ear canal and start measurement



Measure REAG

- Carefully place hearing instrument into position
- 2 measurements result
 - Grey curve: first fit without REM
 - Solid blue/red curve: automatic adjustment to hit target



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Real Ear Measurement Complete

- The fitting graph will now reflect the patient's real ear data
- Option to either apply or discard Real Ear Fit adjustments to the hearing instruments
- Select 'Finish' to apply your choice

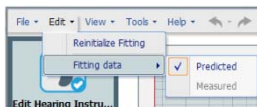


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Real Ear Measurement Complete

- If you apply the adjustments, you can still return to Predicted Fitting data under 'Edit' in the Toolbar



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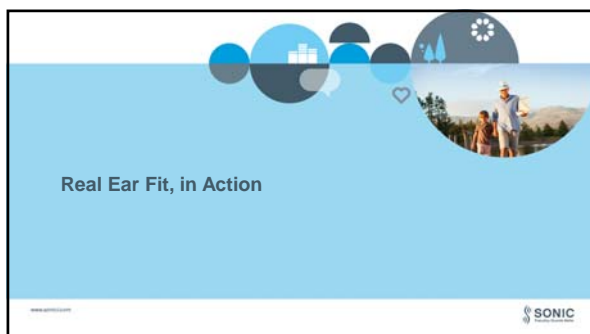
Real Simple

- Future changes to Audiogram, Fitting Rationale, or Experience Level will not require a new REAG measurement
- Changes to acoustics or Instruments will require a new REAG measurement

Personal Data Audiogram RECD REAG

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Hearing Solutions



Real Ear Fit, in Action

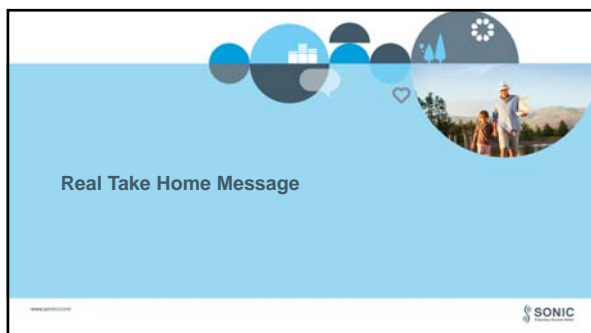
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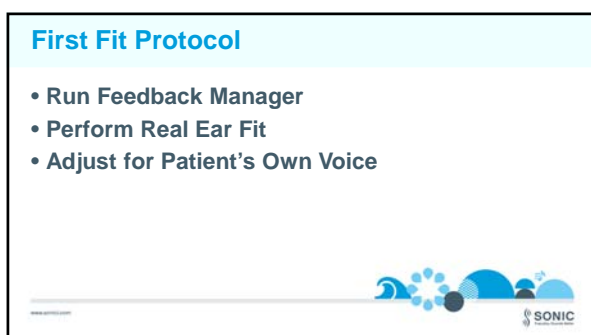
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Hearing Solutions

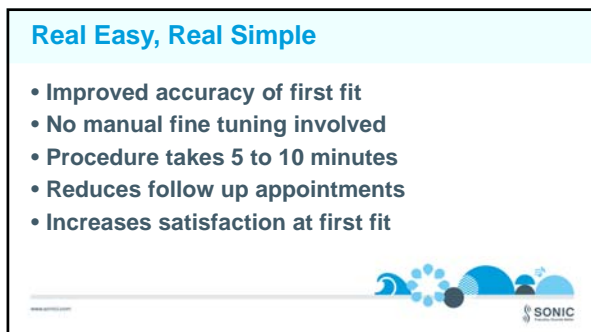
- real ear fit video

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Final Comments

- Thank you so much for attending Real Simple, Real Ear Fitting Tool
- Any Questions?
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 - Email: err@sonici.com

