

Advanced Features for Teens



Disclosure in Accordance with ASHA CEU Requirements





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Territory Sales Manager for Phonak Pediatrics Southeast

- I have a financial relationship to disclose:
 - Employee of Phonak who receives a salary
- I have no nonfinancial relationship to disclose


Agenda

- Phonak Portfolio
- Advanced features
- Target 3.0
- Wireless accessories



0-18 Solutions: Pediatric SPICE Portfolio					
Hearing instruments	Mild HL 20-40 dB	Moderate HL 41-55 dB	Moderately-Severe HL 56-70 dB	Severe HL 71- 95 dB	Profound HL Greater than 95 dB
Nios S H2O					
Naida S SP					
Naida S UP					
Audio S SMART					

Phonak Product Portfolio 2012



Introducing the Phonak Quest platform

	BTE	Custom	RIC	Power	Behind-the-ear
Premium	Phonak Borealis Q90	Phonak Verto Q90	Audio S 90*	Naida S 90*	Naida S 90*
Advanced	Phonak Borealis Q70	Phonak Verto Q70	Audio S 70*	Naida S 70*	Nios S 70* / Naida S 70*
Standard	Phonak Borealis Q50	Phonak Verto Q50	Audio S 50*	Naida S 50*	Nios S 50* / Naida S 50*
Essential	Phonak Borealis Q30	Phonak Verto Q30	Audio S 30*	Naida S 30*	Nios S 30* / Naida S 30*
Basic	Milo Play**	Milo Play**			

*Phonak Quest platform
**Phonak Quest platform

PHONAK
life is on

Phonak Quest

Understanding Everywhere

- Speech in Wind
- auto StereoZoom
- auto ZoomControl
- DuoPhone

Understanding with Comfort

- WindBlock
- auto Acclimatization
- WhistleBlock
- NoiseBlock
- SoundRelax
- EchoBlock

Understanding Everything

- SoundRecover
- UltraZoom
- SoundFlow
- FlexVolume
- FlexControl
- Real Ear Sound

Binaural VoiceStream Technology®
The heart of Phonak Quest

New!


Binaural Hearing inspired by nature

Using the information from both ears



Figure 2

Binaural hearing helps in complex listening situations

How your brain works:	How Phonak hearing aids work using Binaural VoiceStream Technology®
• Binaural Directivity	<ul style="list-style-type: none"> • Binaural Directivity <ul style="list-style-type: none"> - StereoZoom - auto StereoZoom
• Better Ear Effect	<ul style="list-style-type: none"> • Better Ear Effect <ul style="list-style-type: none"> - DuoPhone - ZoomControl - auto ZoomControl - Speech in Wind




Understanding everywhere
Binaural VoiceStream Technology®





What do „wireless“ and „binaural“ really mean?

- Coordination of settings
 - 0.2 kBit/s
 - Volume / program change - one switch controls two instruments
- Exchange of acoustic information / data
 - 120 kBit/s
 - Environment identification
 - Coordination of amplification scheme
- Full bandwidth real-audio signal transmission
 - 300 kBit/s
 - Binaural signal processing: noise reduction, beam steering, directional listening




auto ZoomControl



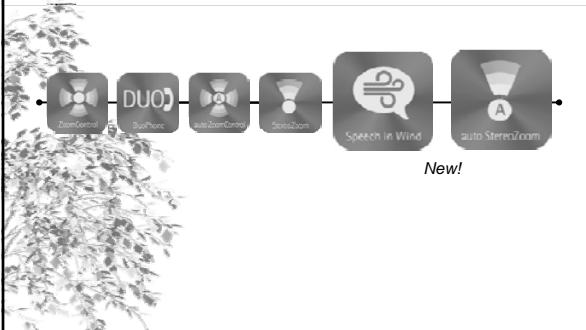
- Manual selection based upon need
- Finds the strongest speech signal
- Noisy environments with few speakers




ZoomControl Fine Tuning



Binaural VoiceStream Technology® The heart of Phonak Quest




DuoPhone




- Full audio exchange between ears
- As soon as the phone conversation begins, the signal is streamed to the other ear in real time to allow for the caller to be heard in both ears.

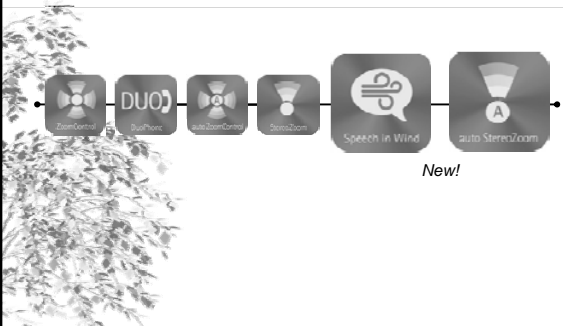
duoPhone Landline



DuoPhone in Target 3.0




Binaural VoiceStream Technology® The heart of Phonak Quest



New!


StereoZoom

Focus on a Single Voice




- Narrow the beam and focus on a single speaker
- A highly focused beam designed to help your clients when their goal is to listen to a single voice in the crowd.

StereoZoom OFF




StereoZoom ON




Binaural VoiceStream Technology®

The heart of Phonak Quest

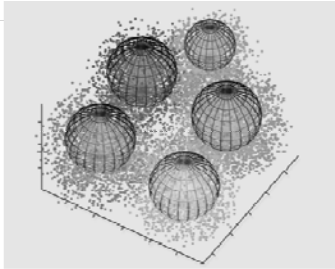


New!

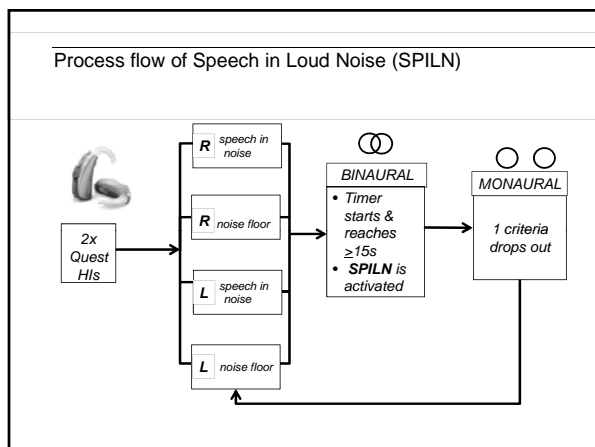
auto StereoZoom



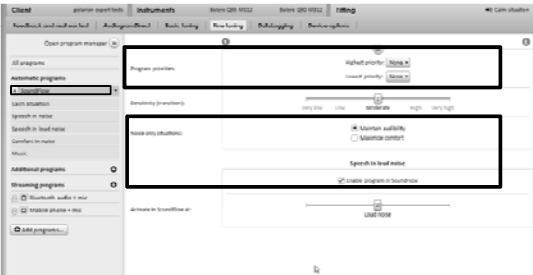
SoundFlow Quest

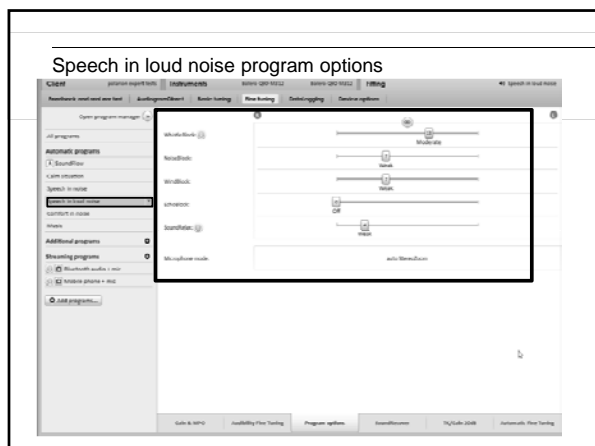


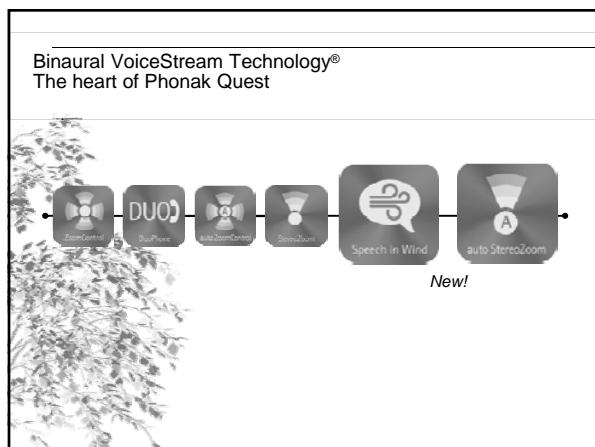
☐ Calm/Speech ☐ Noise ☐ Speech in Loud Noise
☐ Speech in Noise ☐ Music

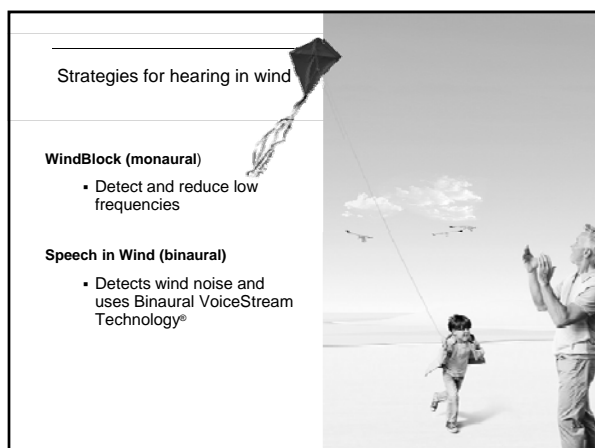


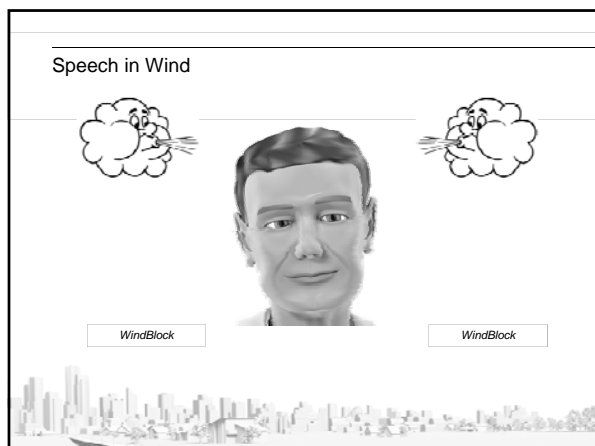
auto StereoZoom in SoundFlow

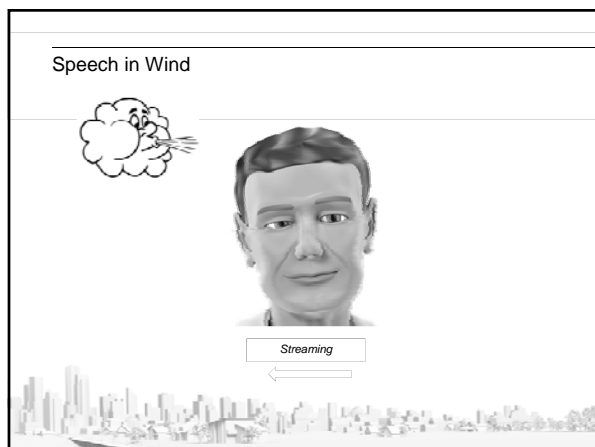


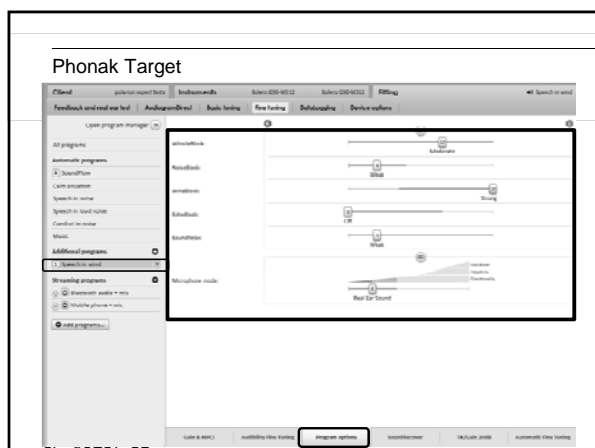












Understanding with comfort

Understanding everything

SoundRecover -Nonlinear Frequency Compression
Consistently more audibility

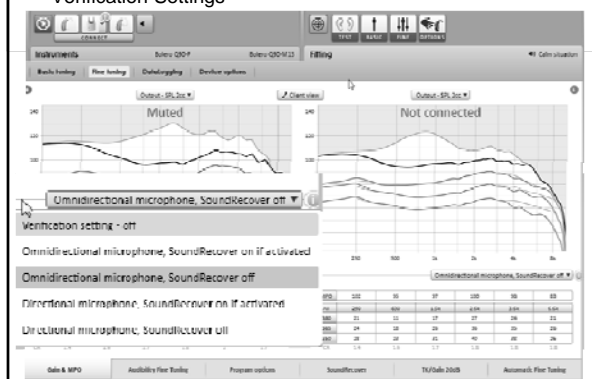
- Speech clarity
- Natural sound quality
- Consistent exposure to HF speech sounds
- Detection and recognition of /s/ & /sh/ is easier
- Access to sounds up to 10 kHz
- Mild to profound hearing losses

SoundRecover Verification Protocol

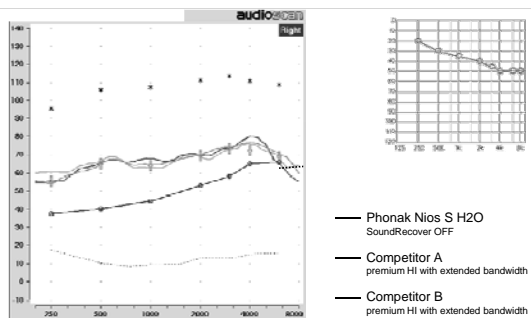
- Activate Verification Settings
- Match Gain and MPO target
- Measure the 6300 Hz frequency band to determine if /s/ is audible
- Live voice productions of /s/ and /sh/ may be used to evaluate specific level and frequency location of these phonemes
- Adjust SoundRecover cutoff frequency to optimize

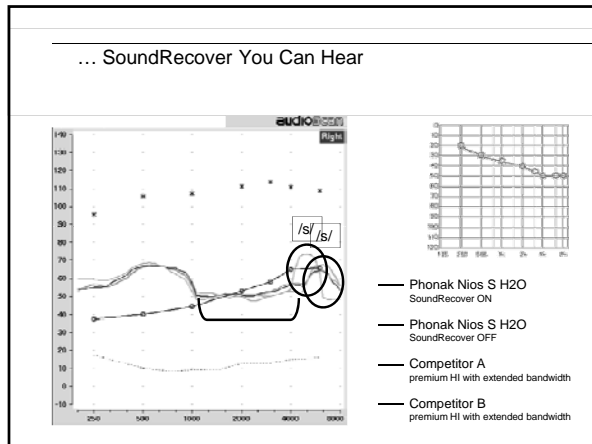
Pediatric verification considerations for instruments with SoundRecover (non-linear frequency compression) using the latest Audioscan VeriFit® tests - Danielle Glista & Susan Scollie, National Centre for Audiology, University of Western Ontario, Canada

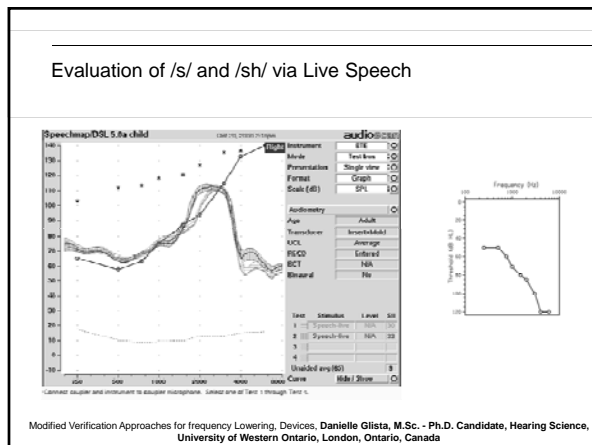
Verification Settings

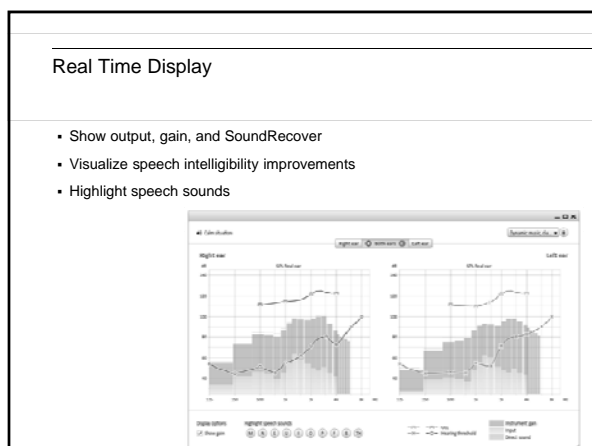


Extended Bandwidth You Can Measure...











UWO Plurals Test

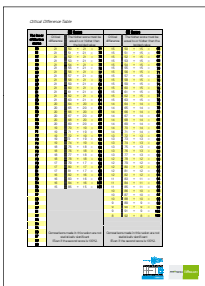
- High frequency consonant recognition, detection and discrimination test
- A measure of speech perception ability (English)
- Identification of word final consonant e.g. /s/ and /z/







Compare Performance

- evaluate performance in different testing conditions:
- compare hearing instrument features on versus off
 - Compare hearing aids
 - Aided versus unaided conditions
 - Compare SoundRecover settings




Real Ear Sound





- Natural spatial perception
- Simulates pinna effect
- Frequency specific directionality
- Accurate localization







Phonak ComPilot
The All-In-One Accessory

Remote & Streamer in one	
8 hours of streaming	
VoiceAlerts	
Removable neck loop	

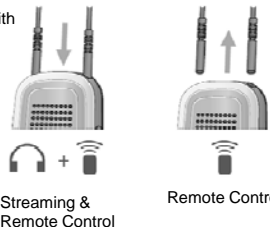
Spice | Spice+ = Remote & Streaming functionality
CORE = Streaming functionality

Removable Neckloop

2 Neckloop sizes:

Long (comes standard with every ComPilot)

Short (available upon request)



Streaming & Remote Control


Remote Control

Streaming Functionality:

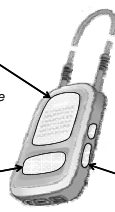
Out of the box:

- Listen to music
- Stream television
- Attach an FM receiver
- Stream phone calls
- Alter streaming volume

Streams with any wireless Phonak instruments



ComPilot Button Functions



Main "Navigation"

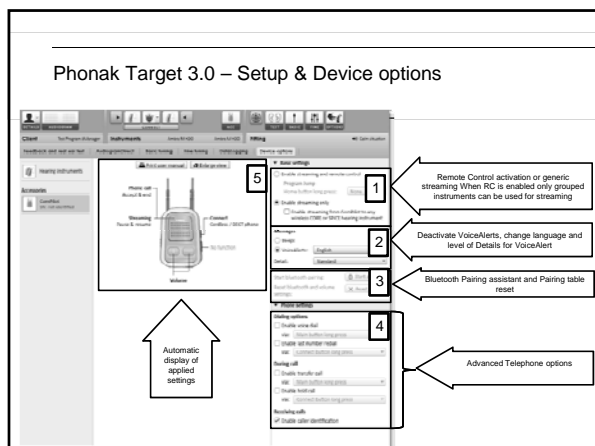
- Accept / Dismiss **calls**
- **Streaming**-Pause/Resume/Toggle
- **HI programs** (RC)

Volume "Adjustment"

- Adjustment of HI volume and/or Streaming input

Home Orientation

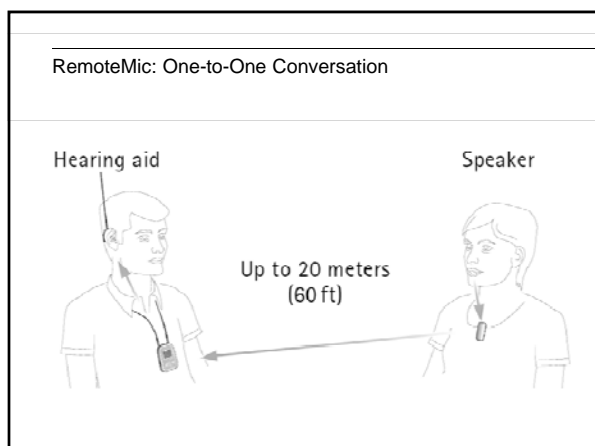
- Activates Startup Program

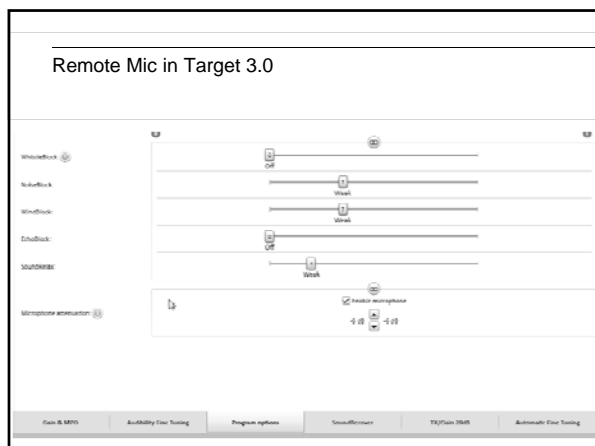


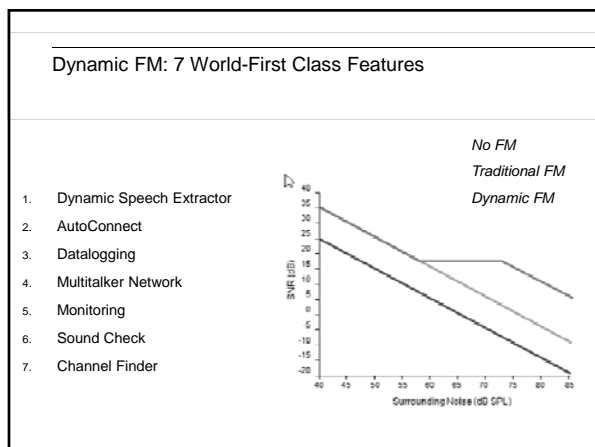
Phonak RemoteMic Highlights

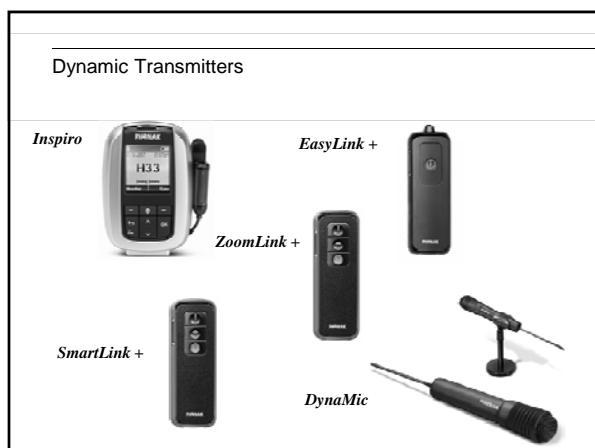
- Compatible with all wireless Phonak hearing aids and ComPilot/iCom
- 8kHz audio bandwidth
- 8 hours of continuous streaming
- Small, lightweight (<.5 oz / 13 g) design
- One-to-one conversations
- 6-60 feet of streaming range

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Life-Changer










Dynamic Receiver family



ML15i with iP67

Coming Soon for
Bolero Q P and SP...
ML16i

Phonak Product Portfolio 2012



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	BE	Custom	BC	Power	Pediatric
Prescriptive	Phonak Bolero Q90	Phonak Vistro Q90	Audite S 90*	Naida S 90*	Naida S 90*
Advanced	Phonak Bolero Q70	Phonak Vistro Q70	Audite S 70*	Naida S 70*	Nida S 70* / Naida S 70*
Standard	Phonak Bolero Q50	Phonak Vistro Q50	Audite S 50*	Naida S 50*	Nida S 50* / Naida S 50*
Essential	Phonak Bolero	Phonak Vistro	Audite S P	Naida S P	
Basic	Nida Play**	Nida Play**			

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Summary

- Phonak's **SPICE and Quest Portfolio** provides hearing solutions for all degrees of hearing loss, budgets, and listening needs
- SoundRecover** provides consistent audibility for all degrees of hearing loss for speech and language development
- Wireless Connectivity** allows kids connect to phones, MP3 players, computers, and TV
- Junior Mode** provide evidenced based customizable defaults for quick hearing aid fittings
- Dynamic FM** provides the best SNR for the better speech understanding in noise
