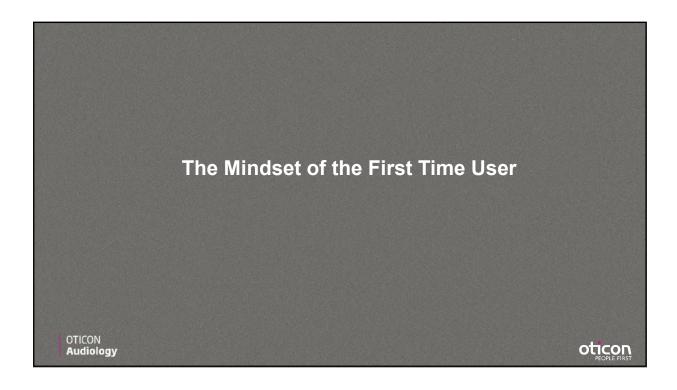


Learning Objectives

- After this course learners will be able to describe the time course of rejection of amplification by first time users.
- After this course learners will be able to explain the balance between counseling and adjustments for first time user.
- After this course learners will be able to identify the top ten Oticon recommendations for follow-up adjustments.

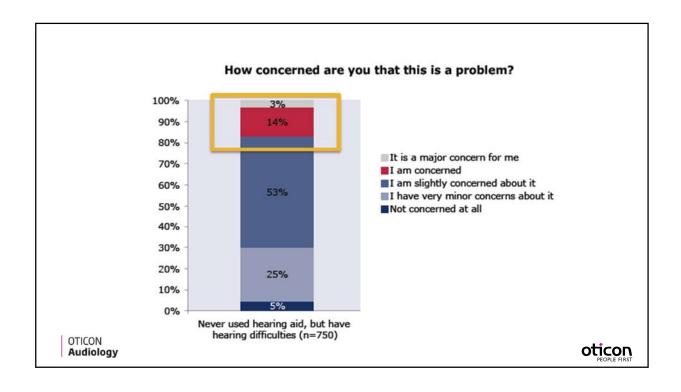
OTICON Audiology

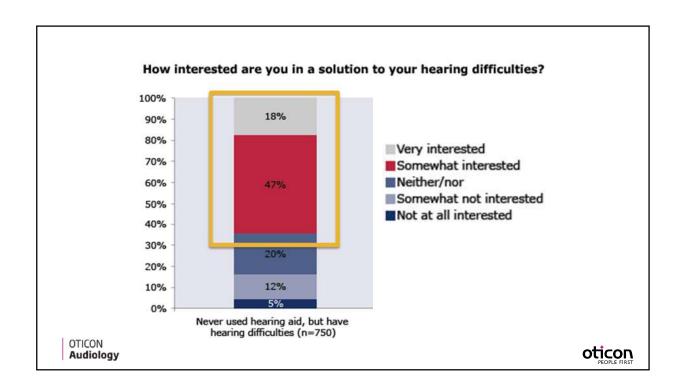




First Time Users: New Insights

- Web-based survey
- 1,450 respondents
 - 750 first time users, 700 experienced users, recruited through local web panels
 - US, CAN, GER, FRA and ITA





The Patient has decided to try hearing aids:

- Resistance to action
- ▶ Movie Night

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The Patient has decided to try hearing aids:

- ▶ Resistance to action
 - ► Movie Night
- ▶The Role of Framily

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The Patient has decided to try hearing aids:

- Resistance to action
 - ► Movie Night
- ▶The Role of Framily
- ▶The difference between *Willing* and *Ready*

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What makes a patient ready?

- Trust
 - ▶ Professional
 - ▶ Product
 - ▶ Self
- Emotionally feels the effects of the hearing loss . . . Sense of urgency
- Takes ownership
- Realistic expectations

Why?

Is rejection about the hearing aids or the patient?

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First Time Users: New Insights

First Month Studies

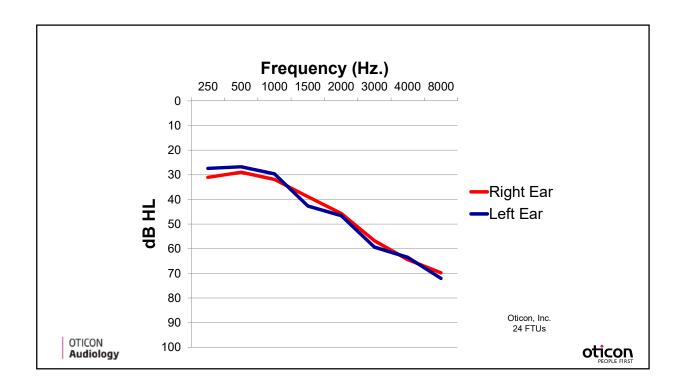
Oticon Inc. Survey: 24 FTUsTowson University Clinical Study: 19 FTUs

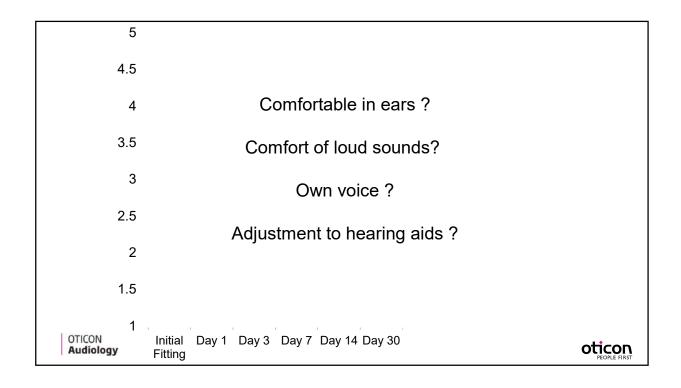
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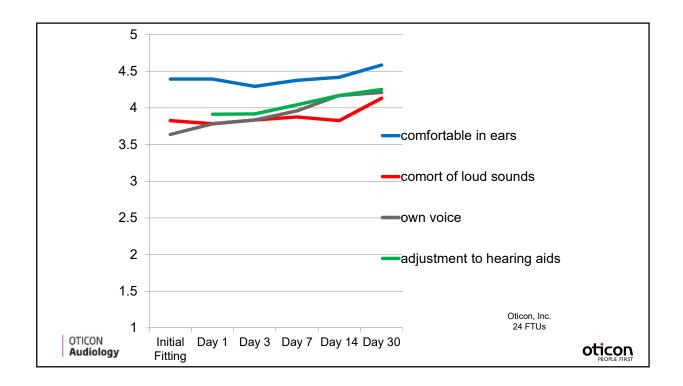
First Time Users: New Insights

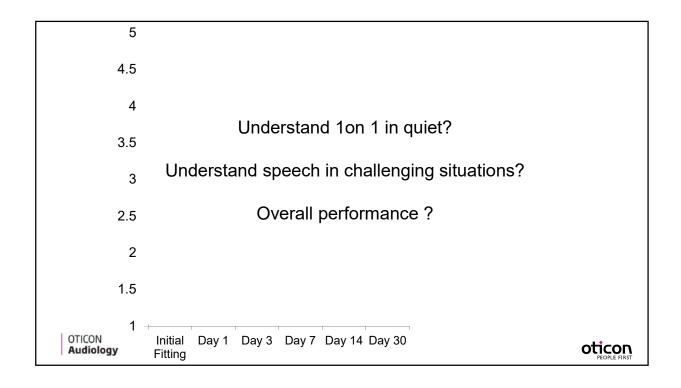
What happens during first 30 days?

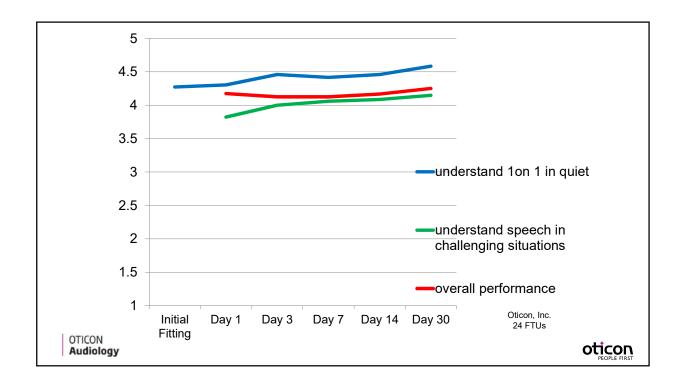
- First Times Users (high end)
- Fitting, +1, +3, +7 +14, +30 days
- Subjective Qs on Side Effects, Performance & Attitude
- At Towson: Speech Understanding in Quiet & Noise
- All subjects kept the devices

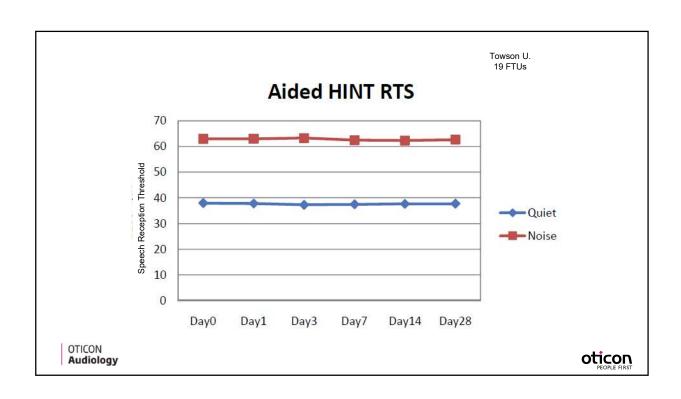


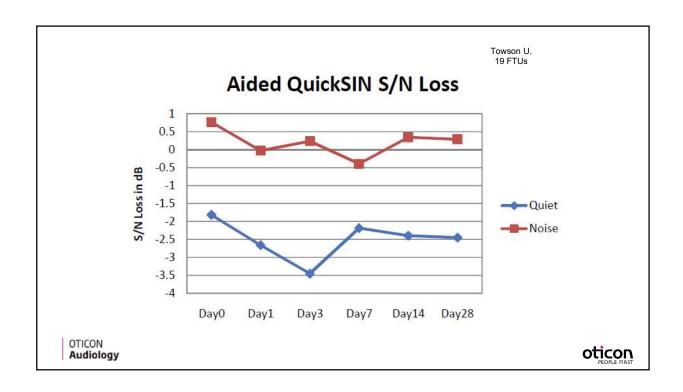


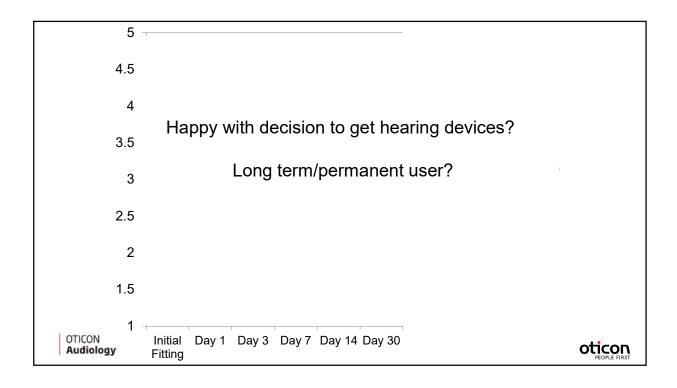


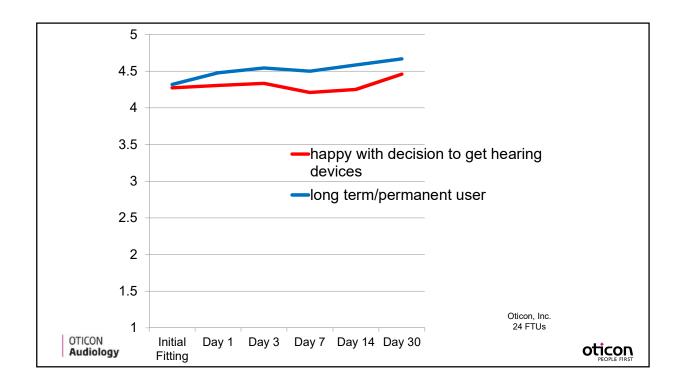


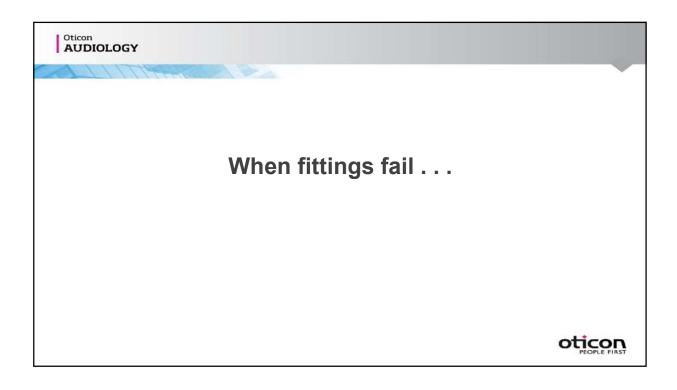




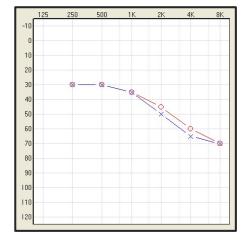








Oticon AUDIOLOGY



•115 FTUs

- •Average Age: 73 yrs
- •Mid & High end HAs
- •Returned HAs, no new set
- •Filled out by patient away

from HCP

Average WRS in Quiet R: 85% L: 79%

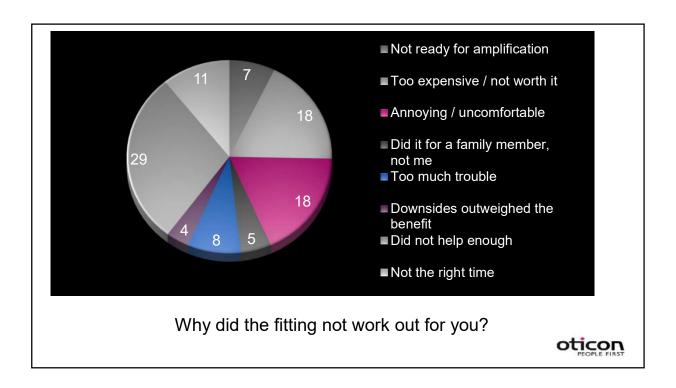


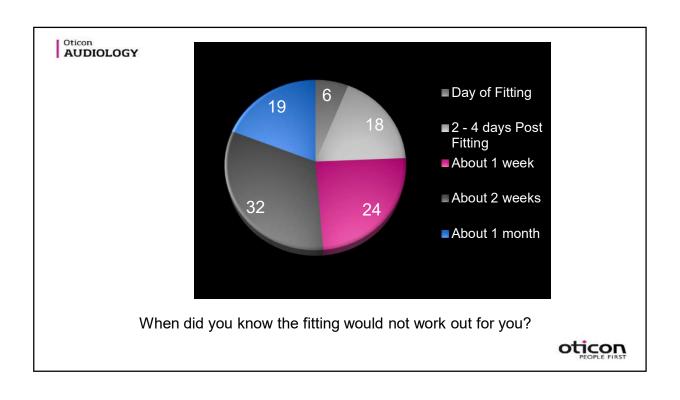
Oticon AUDIOLOGY

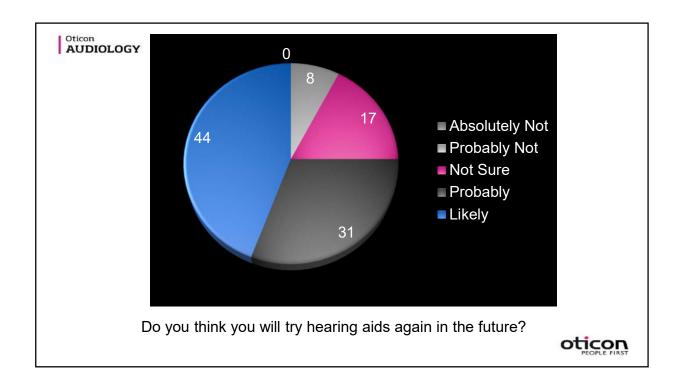
Why did the fitting not work out for you?

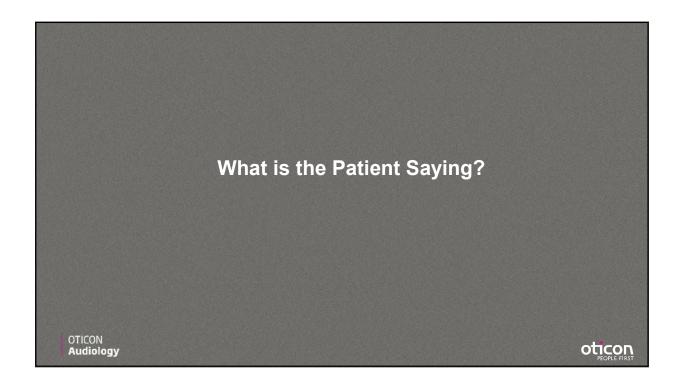
When did you know the fitting would not work out for you?

Do you think you will try hearing aids again in the future?





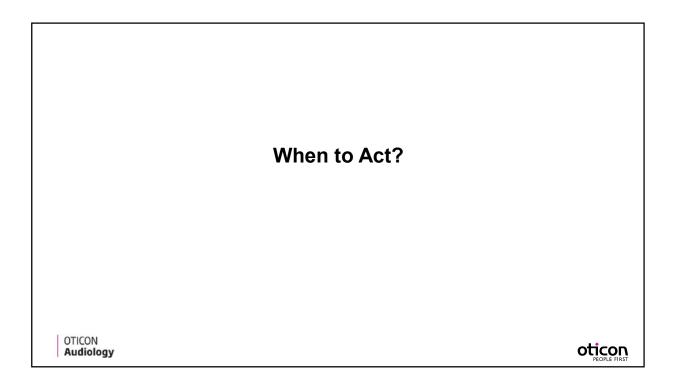


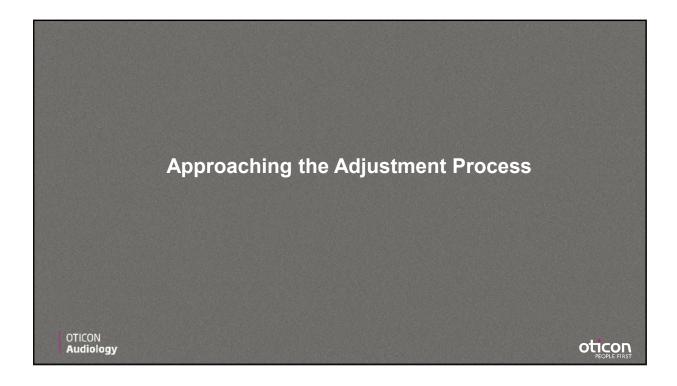


Report or Complaint? OTICON Audiology

Is it an important/common situation?

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History Lesson:

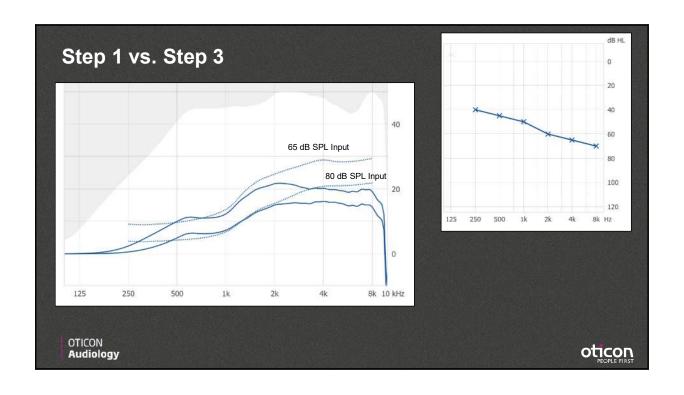
- ▶1980s: multiple programs
- ▶1990s: magic in numbers
- ▶2000s: magic in automatic systems
- ▶20-teens: naturalistic

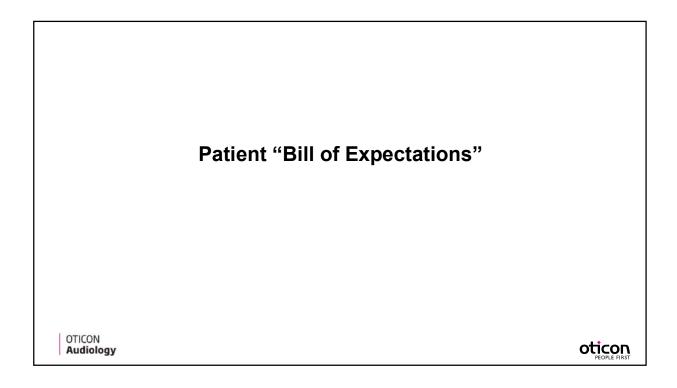
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The Adaptation Process

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Patient Expectation Guide

Expectations:

- Functional on a daily basis . . . Repairs in a timely manner
- ▶ Free from feedback under normal use conditions
- ▶ Physically comfortable to wear
- ▶ Loud sounds acceptable
- Improved ability to hear soft and conversational levels of speech in quiet environments.
- Comfortable to wear in louder, noisier environments.



Patient Expectation Guide

▶ Potential Benefits:

- ▶ The hearing aids will allow you to better understand speech in complex, noisy situations.
- ▶ The hearing aids will improve your ability to separate the various sources of sound in your environment and focus on the sounds in which you are most interested.
- ▶ The hearing aids will improve your ability to understand speech from electronic sources such as telephones, televisions, etc.
- ▶ Higher the technology level, the greater the chances of improved performance in complex situations

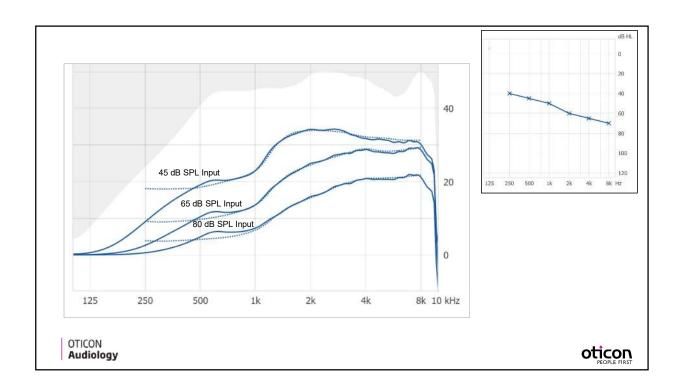
Fitting Rationales

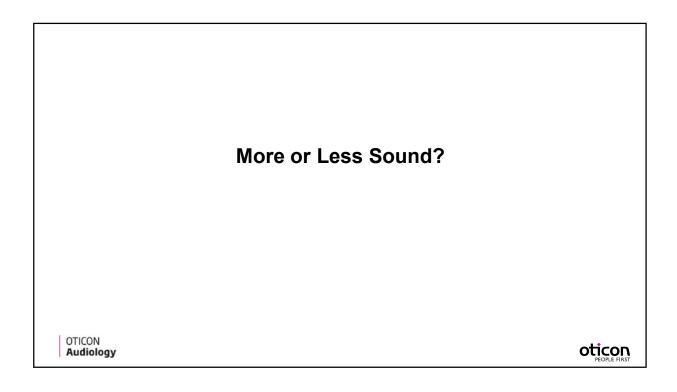
Why would someone want something different?

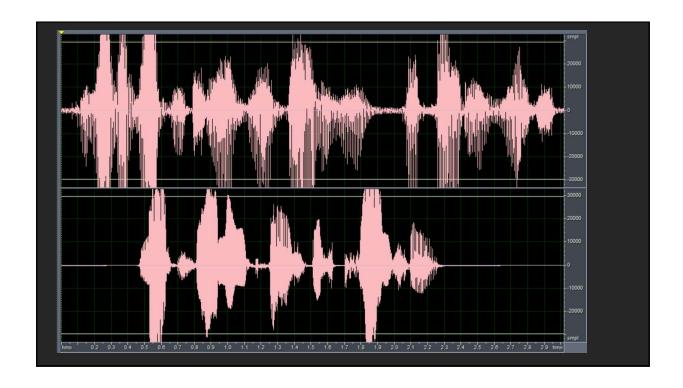
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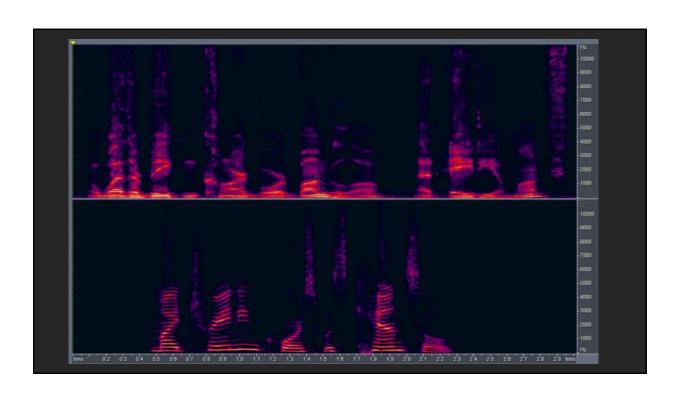
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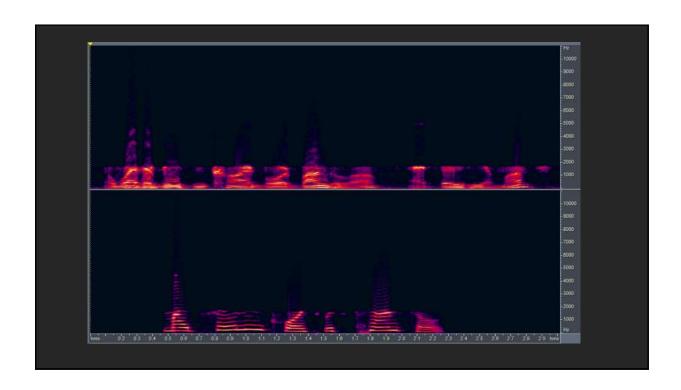
... spectral preference
... loudness/audibility trade off
... loudness perception
... adaptation process
... signal of interest
... psychoacoustic integrity
... cognitive processing
... preferred device personality
... Etc.

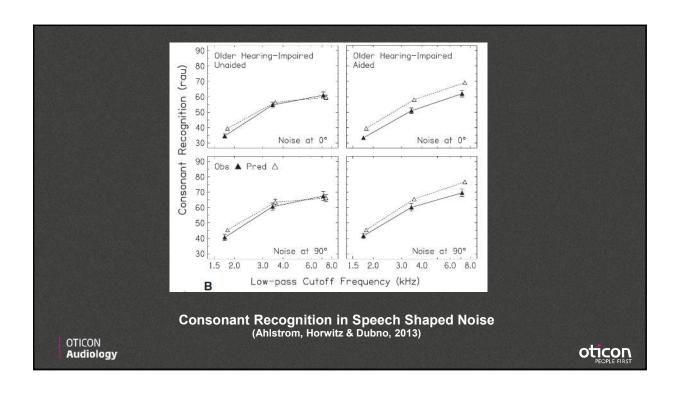


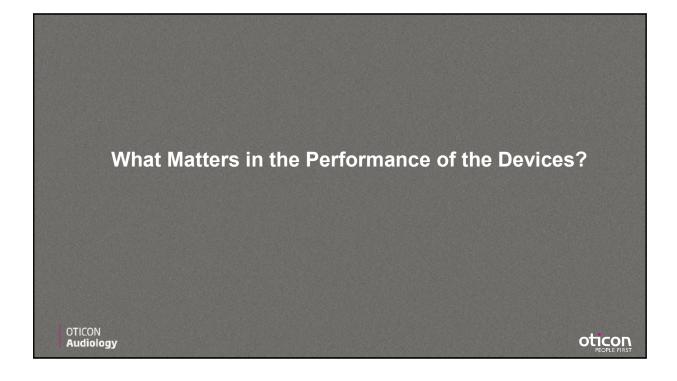








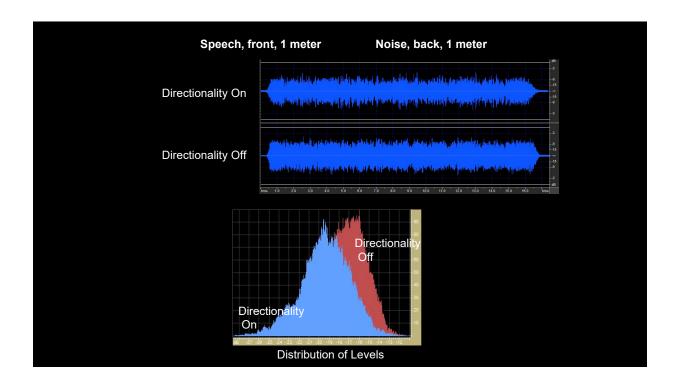


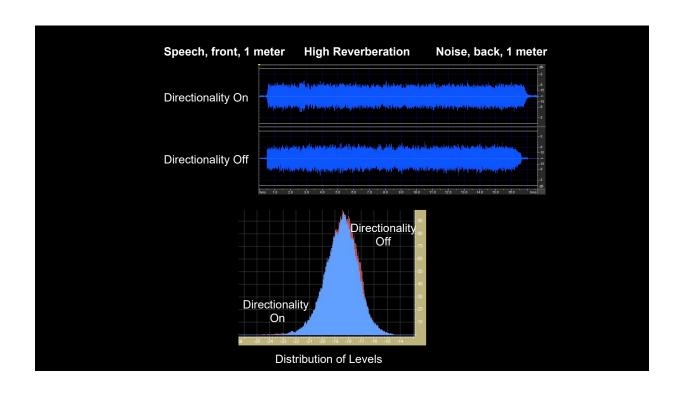


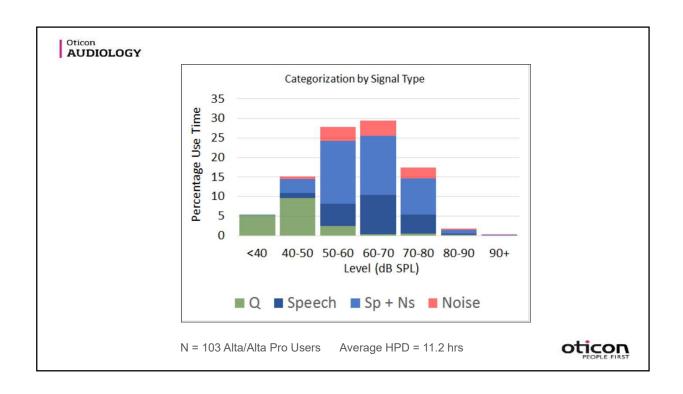
Complex Environments

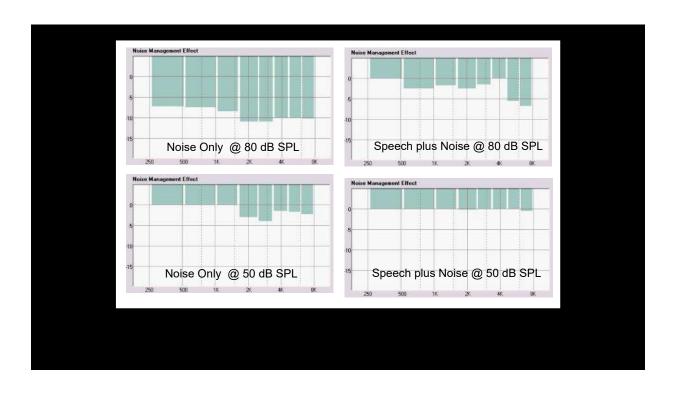
- ▶ Multiple talkers
- Stable, non-speech sources
- ▶Unstable, non-speech sources
- **▶** Movement
- Distractions
- ▶ Shifting focus
- ▶ A little bit of everything

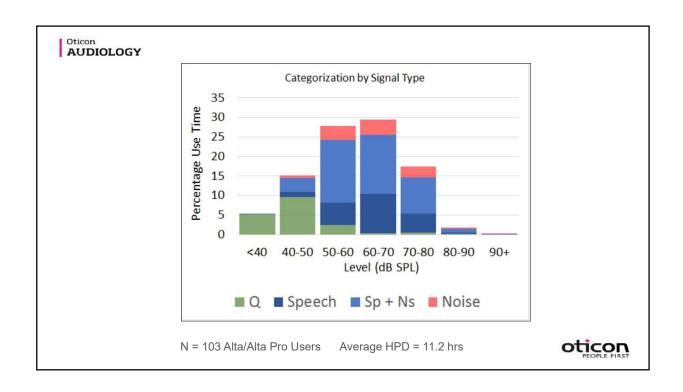
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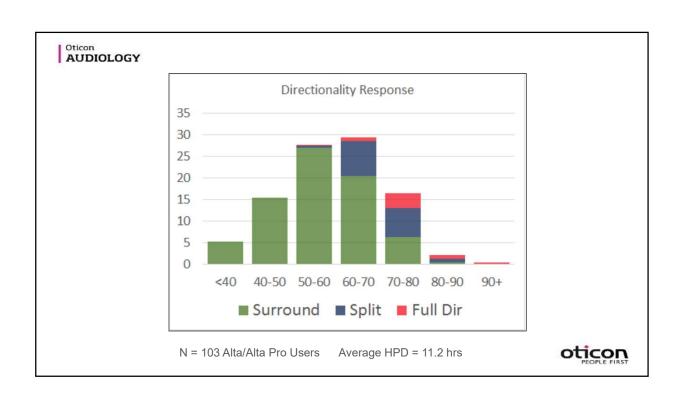


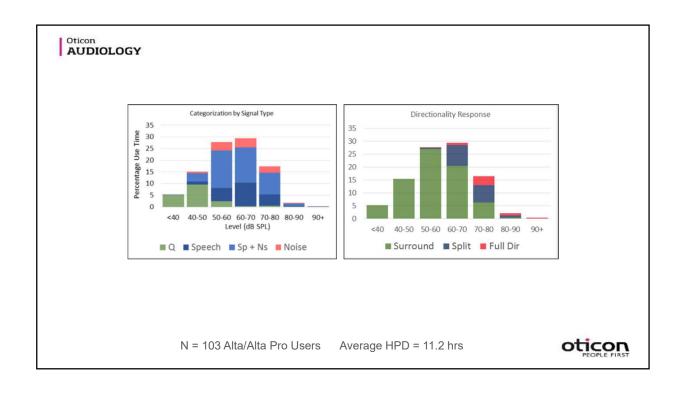


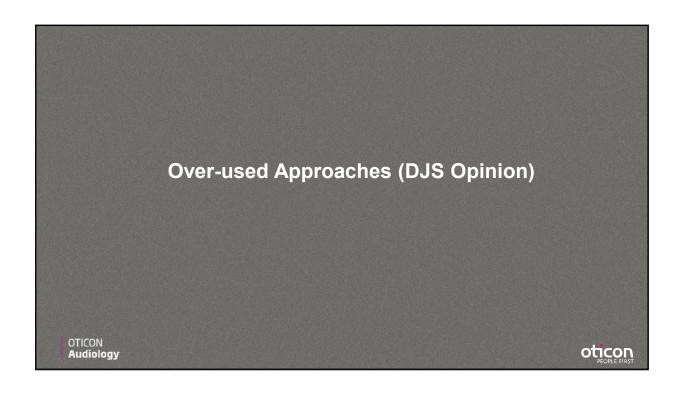












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Over-used Approaches (one man's opinion): Too Soon / Too Quick

Over-used Approaches (one man's opinion): • Too Soon / Too Quick • Enabling OTICON Audiology

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Audiology

- ▶ Too Soon / Too Quick
- **▶** Enabling
- ▶ Putting Words in the Patient's Mouth

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Over-used Approaches (one man's opinion):

- ▶ Too Soon / Too Quick
- **▶** Enabling
- ▶ Putting Words in the Patient's Mouth
- ▶ Finding the Magic Combination

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- Too Soon / Too Quick
- **Enabling**
- ▶ Putting Words in the Patient's Mouth
- ▶ Finding the Magic Combination
- ▶ "non-COSI" Problem Solving

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Over-used Approaches (one man's opinion):

- ▶ Too Soon / Too Quick
- **▶** Enabling
- ▶ Putting Words in the Patient's Mouth
- ▶ Finding the Magic Combination
- ▶ "non-COSI" Problem Solving
- ▶ Multiple Programs

OTICON Audiology

- Too Soon / Too Quick
- **Enabling**
- ▶ Putting Words in the Patient's Mouth
- ▶ Finding the Magic Combination
- ▶ "non-COSI" Problem Solving
- ► Multiple Programs
- ▶ Excessive Faith in Targets

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Over-used Approaches (one man's opinion):

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- ► Multiple Programs
- ► Excessive Faith in Targets
- ▶ Cell-specific Adjustments

OTICON Audiology

- Too Soon / Too Quick
- **Enabling**
- ▶ Putting Words in the Patient's Mouth
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- ► Multiple Programs
- ▶ Excessive Faith in Targets
- ▶ Cell-specific Adjustments
- ▶ Adding Soft Gain

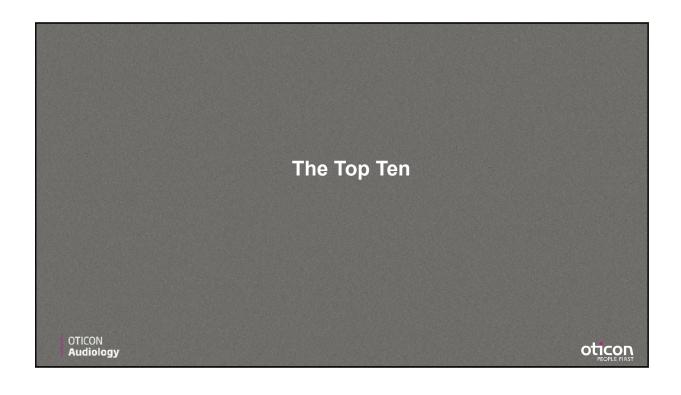
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- ▶ Adding Soft Gain

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1. Give it time

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- 1. Give it time
- 2. Expectations Guidelines

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Top Ten Best Suggestions:

- 1. Give it time
- 2. Expectations Guidelines
- 3. Are the physical components correct? Does the software know?

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- 1. Give it time
- 2. Expectations Guidelines
- 3. Are the physical components correct? Does the software know?
- 4. Provide immediate solution to loudness discomfort

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Top Ten Best Suggestions:

- 1. Give it time
- 2. Expectations Guidelines
- 3. Are the physical components correct? Does the software know?
- 4. Provide immediate solution to loudness discomfort
- 5. Respect sound quality & acceptance requests

OTICON Audiology

- 1. Give it time
- 2. Expectations Guidelines
- 3. Are the physical components correct? Does the software know?
- 4. Provide immediate solution to loudness discomfort
- 5. Respect sound quality & acceptance requests
- 6. Review data-logging with patient

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Top Ten Best Suggestions:

- 1. Give it time
- 2. Expectations Guidelines
- 3. Are the physical components correct? Does the software know?
- 4. Provide immediate solution to loudness discomfort
- 5. Respect sound quality & acceptance requests
- 6. Review data-logging with patient
- 7. Use the full range of usable hearing

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- 1. Give it time
- 2. Expectations Guidelines
- 3. Are the physical components correct? Does the software know?
- 4. Provide immediate solution to loudness discomfort
- 5. Respect sound quality & acceptance requests
- 6. Review data-logging with patient
- 7. Use the full range of usable hearing
- 8. If the problem is in noise, start with "systems" controls

OTICON Audiology



Top Ten Best Suggestions:

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- 2. Expectations Guidelines
- 3. Are the physical components correct? Does the software know?
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- 7. Use the full range of usable hearing
- 8. If the problem is in noise, start with "systems" controls
- 9. Fine-tuning in regions, not cells

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- 7. Use the full range of usable hearing
- 8. If the problem is in noise, start with "systems" controls
- 9. Fine-tuning in regions, not cells
- 10. Back to target

OTICON Audiology



Top Ten Best Suggestions:

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