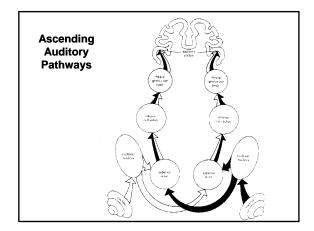
| Asymmetrical Sensorineural Hearing Loss: |
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| Fitting Strategies |
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| Donald J. Schum, PhD Vice President, Audiology & Professional Relations Oticon, Inc. |
| DJS@Oticonusa.com |
| Agenda |
| a officer area |
| Binaural Hearing |
| Asymmetrical SNHL |
| Assumptions of Typical Fittings |
| Types of Asymmetrical Profiles |
| Fitting Suggestions (not rules) |
| Outcome Measures |
| Case Examples |
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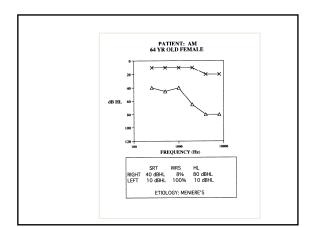


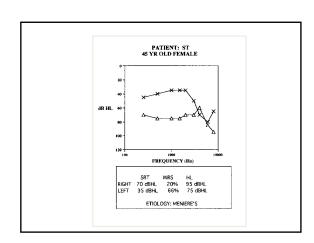
What Does the Brain Look For?

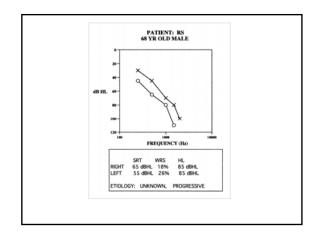
- Amplitude from both sides
- Frequency from both sides
- Arrival time at both sides

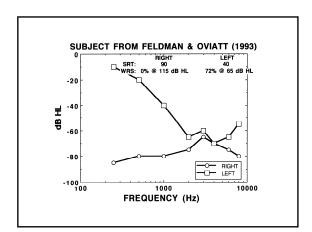
Basics of Hearing • Despite two ears, we hear one image Single, Unified Sound Right Input

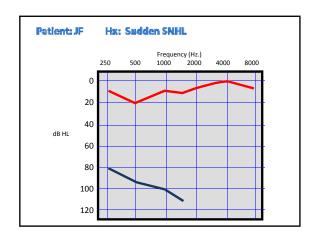
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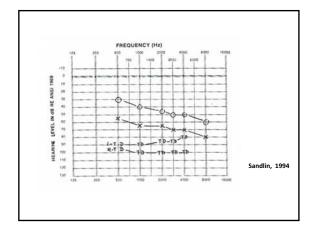












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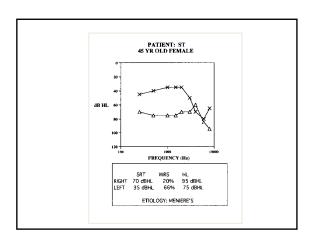
Assumtions

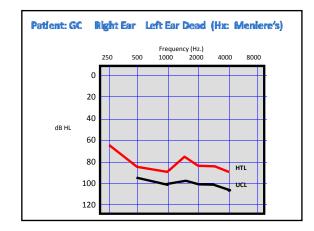
- Full audibility
- Measurable hearing is usable hearing
- Binaural fittings
 - Same time
 - Both ears used in the same way
 - Both ears equal partners
 - Full prescription, both ears

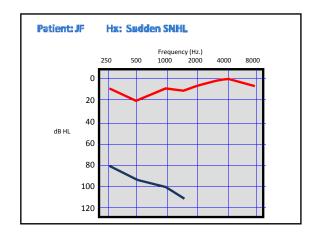
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Types of Asymmetries

- Both ears reasonably aidable, one better
- One dead, one aidable
- One normal, one aidable



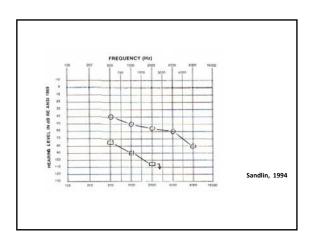


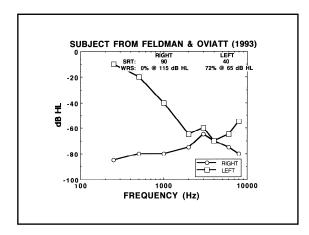


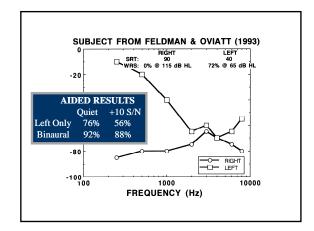
Agenda Binaural Hearing Asymmetrical SNHL Assumptions of Typical Fittings Types of Asymmetrical Profiles Fitting Suggestions (not rules)

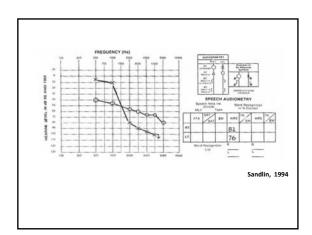
Outcome Measures

Don't say "no" until you know



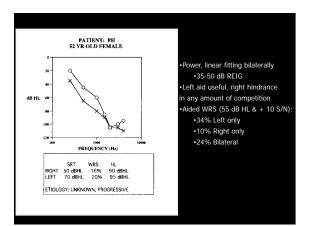


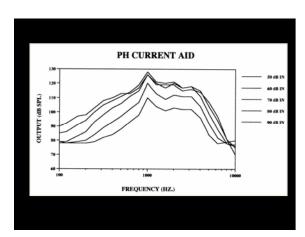


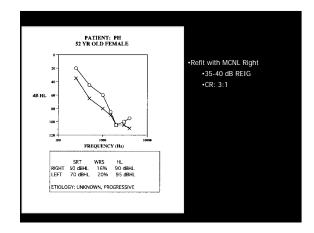


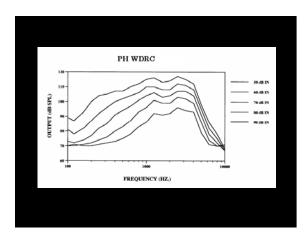
- Don't say "no" until you know
- Aim for a fused, binaural image

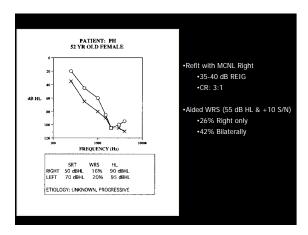
- Don't say "no" until you know
- Aim for a fused, binaural image
- Targets only a place to start . . . Don't be surprised by less gain to the poorer ear



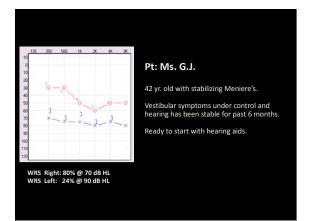


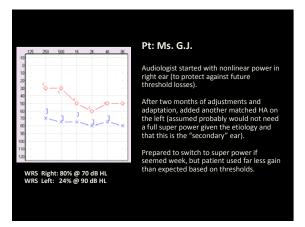






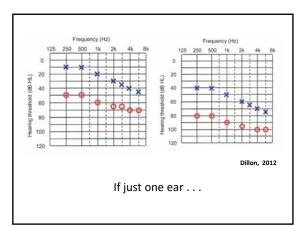
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- Consider Serial Fittings





- Don't say "no" until you know
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- Role of Advanced Features

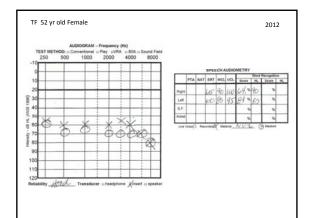
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- Role of Advanced Features
- Proper role of Monaural, CROS & Bi-CROS

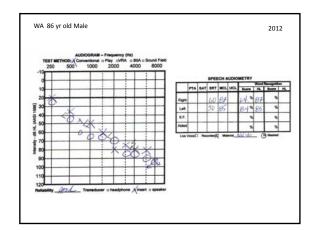


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| Asymmetrical Fitting Questionnaire | |
| , wy minor i i i i i i i i i i i i i i i i i i i | - |
| Question 1: How often do you wear: | |
| Both devices:most waking hoursat least 4 hours per dayoccasionallynever Better Ear Only:most waking hoursat least 4 hours per dayoccasionallynever | |
| Poorer Ear Only:most waking hoursat least 4 hours per dayoccasionallynever | |
| (alternative for unilateral fitting) How often do you wear your hearing aid? _most waking hours _at least 4 hours per dayoccasionallynever | |
| Question 2: When using your hearing aid for your poorer ear, do you hear: | |
| _one unified sound (if yes, where in the head: center, better ear, poorer ear) _a mix of two sounds | - |
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| Asymmetrical Fitting Questionnaire | |
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| Question 3: When using your hearing aid for your poorer ear, what type of help does it provide?: | |
| _understanding conversations in quiet situations _understanding conversations in noisier situations | |
| _telling where sound comes from _identifying sounds in the environment | |
| _a feeling of balance to my hearing _reduces my tinnitus | |
| other: | |
| | |

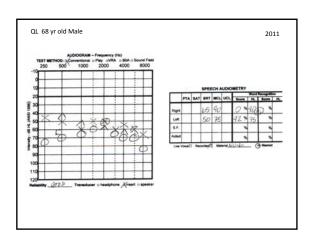
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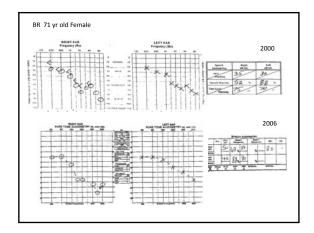
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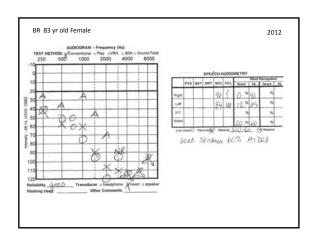


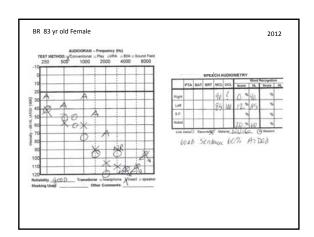


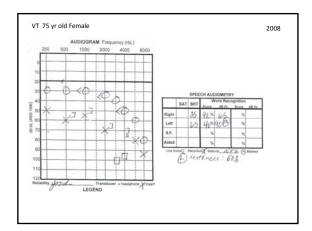
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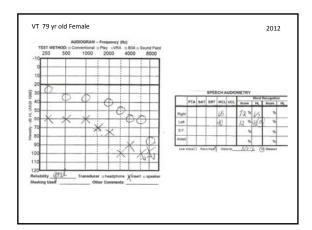












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