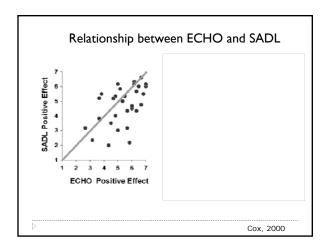
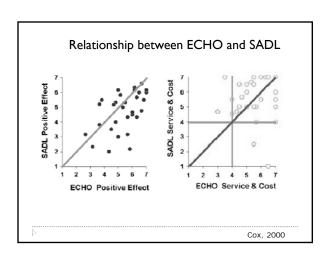


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Satisfaction?	-
	-
	7
Measure \longrightarrow Predict \longrightarrow Fit	
	-
	_
$\begin{tabular}{lll} Measure & & & Predict & & & Fit & & & (Fix) \\ \end{tabular}$	

Lessons from Other Professions	
	1
Satisfaction:	
► Interpersonal Aspect	
➤ Care Environment	
Care Environment	
<u> </u>	
Fitting versus Fitting Experience	

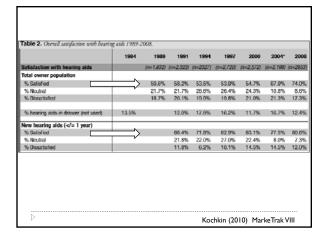
Acute Condition versus Chronic Disease





	7
Satisfaction:	
Sausiaction.	
Driving Factor: Have Expectations Been Met?	
P Driving ractor. Trave Expectations Been riet.	
h	
Jackson et al., 2001	
	7
What drives Satisfaction?	
M/hatayay tha patient gazaidaya iyanaytayt	
Whatever the patient considers important.	
	-
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What drives Satisfaction?	
What drives Satisfaction?	
Audiologist: highest level of performance	
▶ Patient: ?	
r rauchu:	
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	1984	1989	1991	1994	1997	2000	2004*	200
Satisfaction with hearing aids		(n=1,632)	(n=2,323)	(9=2327)	(n=2,720)	(n=2.572)	(n=2,198)	(0=285
Total owner population								
% Satisfied		59.6%	58.2%	53.5%	53.9%	54.7%	67.9%	74.0
% Neutral		21.7%	21.7%	26.6%	26.4%	24.3%	10.8%	8.6
% Dissatisfied		18.7%	20.1%	19.9%	19.8%	21.0%	21.3%	17.5
% hearing aids in drawer (not used)	13.5%		12.0%	17.9%	16.2%	11.7%	16.7%	12.4
New hearing aids (= 1 year)</td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
% Satisfied			66.4%	71.8%	62.9%	63.1%	77.5%	80.6
% Neutral			21.8%	22.0%	27.0%	22.4%	8.0%	7.3
% Dissatisfied			11.8%	6.2%	10.1%	14.5%	14.5%	12.0



Factors correlated with Overall Satisfaction

- I. Overall benefit (.71)
- 2. Clarity of sound (.70)
- 3. Value (performance of the hearing aid relative to price) (.68) 4. Natural sounding (.66)
- 5. Reliability of the hearing aid (.65)
- 6. Richness or fidelity of sound (.65)
- 7. Use in noisy situations (.63)
- 8. Ability to hear in small groups (.63)
- 9. Comfort with loud sounds (.60)
- 10. Sound of voice (occlusion) (.60)

Kochkin (2010) MarkeTrak VIII

Factors correlated with Overall Satisfaction 1. Overall benefit (.71) 2. Clarity of sound (.70) 3. Value (performance of the hearing aid relative to price) (.68) 4. Natural sounding (.66) 5. Reliability of the hearing aid (.65) 6. Richness or fidelity of sound (.65) 7. Use in noisy situations (.63) 8. Ability to hear in small groups (.63) 9. Comfort with loud sounds (.60) 10. Sound of voice (occlusion) (.60) Performance-based factors

Kochkin (2010) MarkeTrak VIII

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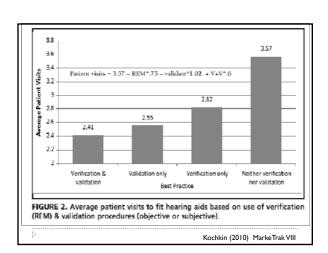
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10. Sound of voice (occlusion) (.60)

Sound Quality/Seamlessness/Comfort factors



International 2010 Patient Survey

- 1,450 respondents
 - 750 first time users, 700 experienced users, recruited through local web panels
- . US, CAN, GER, FRA and ITA
- Web-based survey with stimuli material (visuals, messages).

What do you find important when it comes to the choice of the hearing instrument?

That I understand speech clearly
That it feels confortable to wear
That I hear sounds they way I expect to
That I hear sounds they way I expect to
That I am able to understand a policy content of the sounds.
That I am able to understand a policy content of the sounds.
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Mindset Entering the Process

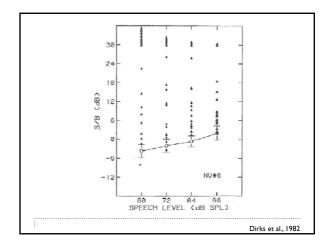
Expectations Are they always stated?	
Motivation	
Patient or Consumer?	

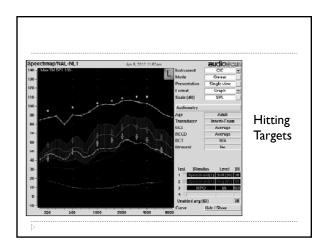
irst Time User	
▶ Appearance	
• Acceptance	
► Performance	
>	
First Time User	Experienced User
Appearance	▶ Better?
• Acceptance	PerformanceSound Quality
► Performance	7 Sound Quanty
Patient-defined Dimension	ns: Examples
Are you hearing better?Are they helping you wh	
	o you noped.
D	

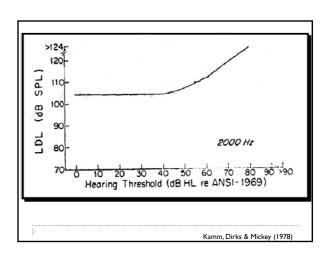
Patient-defined Dimensions: Examples	
Are you hearing better?	
Are they helping you where you hoped?	
Does it sound like you expect?	
Is it comfortable when you are in noisy environments?	
Does it sound like your previous devices?	
Are you overwhelmed by the sound?	
▶ Do you like the way it sounds?	
Does it seem unnatural? Mechanical? Machine-like? Telephone-like? Hissy?	
Does it sound clear? Pleasant? Natural?	
<u> </u>	
	-
Getting the Sound Right	
Getting the bound rught	
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I6 Hours	

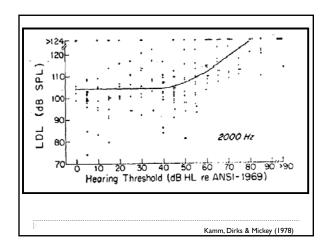
Choice A Choice B	
D	
	1
Variability of Sound Preferences	
Þ	
]
0.100 A Right Ears 0.100 B Left Ears	
Octo-	
5 0.010	
0.005	
0.001 0 10 20 20 40 20 40 20 40 50 50 70 80 60	
dB HTL [re: ANSI 1969]	

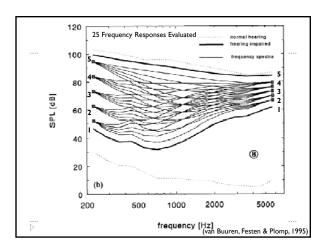
Simon & Yund, 1993

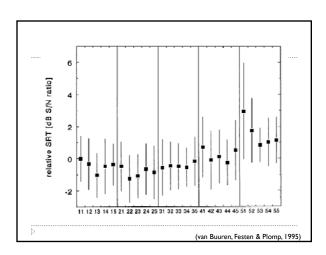












10 10 10 10 10 10 10 10	
What does it mean to fine tune?	
Aesthetics versus Performance	

Aesthetics versus Performance	
Aestnetics versus Performance	
"I hate the way it sounds, but it seems to work."	
Aesthetics versus Performance 🖂	
Aestnetics versus Performance	
Overall or Specific Situations?	
ν	
Aesthetics versus Performance 🗔	
Academics versus i enormance	
Can overall performance be assessed in the office?	

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Aesthetics versus Performance	
Which Sounds? Which Questions?	
Which Device Dimensions?	
<u> </u>	
	J
	_
$Measure \longrightarrow Predict \longrightarrow Fit \longrightarrow (Fix)$	-
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	٦
Maximizing Satisfaction	
► The Total Experience Matters	
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Maximizing Satisfaction	
The Total Experience Matters	
Uncover Expectations Assess Motivation	
Maximizing Satisfaction	
The Total Experience Matters	
Uncover Expectations Assess Motivation	
Both Performance & Sound Quality/Comfort/Seamlessness	
Maximizing Satisfaction	
The Total Experience Matters	
Uncover Expectations Assess Motivation	
Both Performance & Sound Quality/Comfort/Seamlessness	
D. P. C. D. C. L.	
Predictions are Difficult	

Does the Fitting Satisfy the Patient?	
Donald J. Schum, PhD Vice President, Audiology & Professional Relations	
Oticon, Inc. DJS@Oticonusa.com	