THE ROLE OF COMMUNICATION IN HEARING CARE FOR ADULTS LORIENNE JENSTAD, UNIVERSITY OF BRITISH COLUMBIA



CAA 2022, Thurs Oct 13, 10:30-11:25 am



RESEARCH FUNDED BY:

UBC Faculty of Medicine

Care for Elders, UBC Faculty of Medicine

- NSERC (Natural Sciences & Engineering Research Council of Canada Discovery Grant)
- BC Network for Aging Research
- Canadian Institute for Health Research (CIHR)
- Mitacs Inc
- Unitron Hearing
- Phonak/ Sonova AG
- Audioscan
- Michael Smith Health Research BC



CONFLICT OF INTEREST DISCLOSURE

Relationships with commercial interests:

- Grants/Research Support: One of the projects I will discuss was supported in part by Audioscan Inc
- Other: I will mention a specific product in this presentation



MANAGING POTENTIAL BIAS

- The project received independent peer review as part of the condition of the Audioscan funding.
- 2) The researchers retained the right to publish the data.
- This presentation has been developed independently from the industrial partner.
- 4) The product is part of the research project and knowledge translation.



AGENDA

- 1. How is patient-provider communication linked to health outcomes?
- 2. Influence of audiologist on hearing health uptake
- 3. Best practices in communication, particularly for those who are communicatively vulnerable
- 4. Informational counseling during hearing aid verification



PATIENT-PROVIDER COMMUNICATION

Effective listening, engaging patients in care decisions, and providing explanations \rightarrow \uparrow health outcomes (e.g., Currie et al., 2015; Fisher et al., 2016; Pincus et al., 2013).

 Fewer patient concerns
 Improved adherence / commitment



Better self-management



PATIENT-PROVIDER COMMUNICATION



Costs of poor communication \rightarrow

- Psychosocial distress
- >Unnecessary treatment
- Provider burnout
- Adverse events (Bartlett et al., 2008; Thorne et al., 2005)

PATIENT-PROVIDER COMMUNICATION



Communication is most effective when patients/caregivers have an active role in the decision-making

process (e.g., Street et al., 2009).





Fig. 1. Direct and indirect pathways from communication to health outcomes.

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Role of the Audiologist

2. Role of Communicator:

Audiologists facilitate the therapeutic relationship and exchanges that occur before, during and after each encounter. The competencies of this role are essential for establishing rapport and trust, sharing information, developing a mutual understanding and facilitating a shared plan of client-centred care.

Essential Competencies	Sub-Competencies	
a. Communicate respectfully and	i. Use language appropriate to the client and context, taking into account age, culture,	
effectively using appropriate	linguistic abilities, education level, cognitive abilities and emotional state.	
modalities.	 ii. Employ environmental and communication strategies to minimize barriers to successful communication, including the use of appropriate modes of communication (e.g., oral, non-verbal, written, electronic). iii. Mitigate language barriers by using translators/interpreters, as required. iv. Recognize and respond to the client's verbal and non-verbal communication. v. Use strategies to facilitate a mutual understanding of shared information. vi. Participate respectfully in challenging conversations. 	
b. Maintain client documentation.	 i. Accurately document services provided and their outcomes. ii. Document informed consent. iii. Complete and disseminate documentation in a timely manner. iv. Comply with regulatory and legislative requirements related to documentation. 	

The National Audiology and Speech-Language Pathology Competency Profiles, The Canadian Alliance of Audiology and Speech-Language Pathology Regulators (CAASPR), May 2018

AJA

Research Article

Addressing Patients' Psychosocial Concerns Regarding Hearing Aids Within Audiology Appointments for Older Adults

Katie Ekberg,^a Caitlin Grenness,^{b,c} and Louise Hickson^{a,b}



Main finding: If patients raise psychosocial concerns and the audiologist does not acknowledge the concerns, patients often leave the appointment with committing to a treatment plan **Research Article**

Exploring Audiologists' Language and Hearing Aid Uptake in Initial Rehabilitation Appointments

Anna Sciacca,^a Carly Meyer,^{a,b} Katie Ekberg,^a Caitlin Barr,^c and Louise Hickson^{a,b}

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Hearing Aid Uptake – What do clients say?

Jenstad, Winsor, Sims-Gould, Purves

Participants

- 9 females; 60 to 75 years of age
 - Previously told they would benefit from amplification
 - 5 had made decision to obtain hearing aids/ current hearing aid users
 - 4 had decided not to obtain hearing aids or were undecided
- 40-60 min. semi-structured interview







Influence of others



Influence of others – Audiologist or hearing healthcare professional

"When I first had my testing done at [the hospital], the audiologist there told me, she said, 'well, you're kind of borderline, you might benefit from it but,' she said, 'if you go to a place that dispenses hearing aids,' she said, 'they're going to want to sell you a hearing aid, so bear that in mind.' So I just, I didn't do anything at that point." -Patricia, 68 yrs, no hearing aids

"For a real good professional, it's somebody that yes, education is very important, but so are a lot of other things. In terms of behaviour and values and you know, commitment, compassion, understanding." - Carol, 67 yrs, fitting appointment has been booked

"I think it was mainly trust." - Judith, 67 yrs, owns 2 hearing aids

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Communicatively vulnerable

• All individuals with inherent or circumstantial factors that create a "diminished capacity... to speak, hear, understand, read, remember, or write" (Blackstone, 2005, p. 13).

Individuals with hearing loss or aphasia

• E.g.:



treated in a hospital in a foreign country; post-surgical delirium



A 'review of reviews' looks to identify gaps in academic literature regarding how communication between a healthcare provider affects the health of a patient, focusing on vulnerable populations.

Read more about the HOLa project: bit.ly/3eD2cl5 @UBC_Sass @cenesubc



Best practices (HOLa)



12:00 PM · Jul 16, 2020 · TweetDeck

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PUBLISHED IN JAAA, FEB 2021

Research Article

Counseling during Real Ear Measurements: The Clients' Perspective

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J Am Acad Audiol

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UBC

INTRODUCTION: ADVANTAGES OF REM

- Current knowledge of advantage of REM when matching to targets
 - Better phoneme recognition in quiet and sentences in noise (Leavitt & Flexer, 2012; Valente et al., 2017)
 - Increased self-reported benefit (Abrams, Chisolm, McManus, & McArdle, 2012)
 - Fewer client-initiated appointments (Kochkin, 2011)
 - Higher self-perceived value, satisfaction with clinician, and willingness to

Pay (Amlani, Pumford, & Gessling, 2016)



ANOTHER POSSIBLE, UNEXPLORED ADVANTAGE OF REM

- Informational Counselling
 - Learn about hearing aid (HA) processing
 - Increase health literacy
 - Incorporates attributes of client-centered care



Brief tangent

HEALTH LITERACY AND HEARING HEALTHCARE



Barbara E. Weinstein, Ph.D. Jennifer Gilligan, B.A. Samantha Morgan, B.A Deborah von Hapsburg, Ph.D.

IDA institute / tools / university course



PURPOSE

 Purpose: to identify the perspective of first-time hearing aid users with respect to the *content* and *format* of informational counselling during REMs



METHODS

Qualitative research methods using focus groups and content analysis

- Participants:
 - 16 adults (12 female, 4 male)
 - Age (19-89 yrs; most were 60+ yrs old)
 - All first-time hearing aid users
 - All remembered having REM verification during their own HA fitting
- 4 focus groups completed
 - 3-6 people per group





METHODS: PROCEDURE

- On the day of the session:
 - Participants saw demonstration of best-practice
 REM with informational counselling
 - Group discussion facilitated by experienced moderator
 - Elicited thoughts on: terminology, overall explanation, and visual format
- All focus group sessions were audio-recorded and transcribed verbatim

What did you	What didn't	
like that was	you like that	
said?	was said?	
What about	What about	
visuals did you	visuals didn't	
like?	you like?	
What are some other thoughts		

that haven't been discussed?



METHODS: DEMONSTRATION

1) Live action: actor-clinician and actor-client

- Semi-structured script developed and reviewed by audiologists
- Demonstration of: otoscopy, probe tube placement, HA insertion, and speech stimuli testing

2) **Video**: Verifit 2 screen projected onto screen for participants

• Participants given print outs of Verifit 2 screen to make notes



Participants and moderator





METHODS: SCRIPTS

Sample demonstration script:

"This line is the hearing aid response in your ear through that tube. The targets are based on a prescription for your hearing. We can see that we need to make some adjustments for the line to match more closely. These sounds are above your hearing thresholds (this line) so you can hear it, but it is not loud enough for you to get full benefit. I am going to increase the volume at these frequencies."



METHODS: SCRIPTS

Sample focus group questions:

What did you like about the information that the clinician said?

- What information do you think was helpful for you to understand the procedure?
- Now think about someone else, maybe someone going through it for the first time, what are some things you think they should hear from the audiologist?



METHODS: DATA ANALYSIS

2 independent researchers

Meaning unit:	 P1:It's too busy cause after the second line goes on (pause) then you lose what all the lines mean- M:-Mmhmm- P1:-Like you can't remember what the green line was the where it should be. Um you almost need a colour chart- M:-Mmhmm- P1:-To look at it
Condensed meaning unit:	 Get too busy with all the lines so lose what lines mean Need colour chart
Code:	1. Visuals unclear and confusing
	2. Need a legend
Category:	1. Visual information- Negative aspects
	2. Visual information- Suggested changes







 $\mathbf{\Sigma}$

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RESULTS

- Analysis revealed:
 - What was done well (Positive aspects)
 - Areas for improvement (Negative aspects)
 - Ideas for change (Suggested changes)
- Data fell into 2 broad categories:
 - Interaction= informal social exchange
 - Transaction= discussion used to complete clinical task







VERBAL INFORMATION: SUGGESTED CHANGES

Show test multiple times



"I think the information should be shown twice like I said. The first time just to see it and thenexplain and then the second time show it when I have the explanation what it means" FG3-P1

Provide additional time

"... if (clinician) could have gone slower through that and maybe even repeated it a couple of times then it would have been clearer..." FG2-P5

VERBAL INFORMATION: SUGGESTED CHANGES

Use simple terminology

"You got to bring it down to some simple terms... everyday language" FG4-P3

Make it meaningful

"I think it has to be connected to yourself" FG2-P5

Balance the amount of information

"... you got to judge your audience..." FG1-P2



VISUAL INFORMATION: SUGGESTED CHANGES

Make objects on screen bigger

"... it should have been much bigger" FG4-P1

Have client-oriented screen

"I'm wondering what it would be like if the patient had a patient-oriented screen and the audiologist had an audiologist-directed screen." FG2-P4

Use labels

"That means nothing; should it be labeled to say what it represents?" FG1-P1





DISCUSSION

- Participants had a lot of input for modifying informational counselling
- Interestingly, participants generally wanted to know more

"When you look at the price of a hearing aid... you want to know as much as possible" FG4-P2



MAIN TAKEAWAYS OF THIS STUDY

With respect to identifying the perspective of first time hearing aid users on the content and format of presenting informational counselling about REMs:

- Explanation and visuals should be more simple and meaningful (clientcentred care)
- Hypotheses Suggested by the Data
 - The more clients know about REM, the more they understand their hearing aids (health literacy)
- Future directions
 - Experimental research → if we incorporate client centered informational counselling will this affect client outcomes?
 - Resource development for clinicians

REVIEW OF OUR AGENDA FOR TODAY

- 1. How is patient-provider communication linked to health outcomes?
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a place of mind THE UNIVERSITY OF BRITISH COLUMBIA

- •What will you do differently on Monday morning?
- •Within the next 6 months?
- •Within the next year?

