

# 3rd Annual Audiology Conference: Emerging Trends in Evaluation and Management of Central Auditory Processing Disorder(CAPD)

## Conference 1: Measurement of Central Auditory Processing Skills (CAPD)

February 4th, 2022

Time (CST)	Title	Description	Speaker
		Intro and Land Acknowledgement	Kendra Usunier
8:00 - 9:30	What can auditory evoked potentials add to the diagnostic battery?		Steve Aiken
9:30 - 9:45		Open Discussion	
9:45 - 10:00		<i>Break</i>	
10:00 - 11:30	Incorporation of the cABR/FFR and other electrophysiological assessments in evaluation of auditory function across the lifespan	Most young children have trouble hearing in background noise to some extent, but this difficulty is especially apparent in children who have been diagnosed with central auditory processing disorders (CAPD) or other language-based learning difficulties. Similarly, older listeners often notice difficulty hearing in challenging environments, especially in comparison to their younger friends or relatives. Deficits in the brain's ability to accurately represent the frequency and timing components of the speech signal can affect speech understanding. Therefore, electrophysiological (EEG) assessments of neural speech processing may provide insight into the factors that contribute to auditory processing difficulties. This presentation will discuss how EEG measurements may be used to better understand reported listening difficulties that cannot be explained by the audiogram. Clinical implications for neural speech processing deficits will be reviewed.	Samira Anderson
11:30 - 11:45		Open Discussion	
11:45-1:00		<i>Lunch</i>	
1:00 - 2:30	Incorporating cABR into the clinical protocol		Laura Polich
2:30 - 2:45		Open Discussion	
2:45 - 3:00		<i>Break</i>	
3:00 - 4:30	Pros and Cons of Using Evoked Potentials as Tools for Diagnosis		Debbie Moncrieff
4:30 - 4:45		Open Discussion	

4:45 - 5:00

Closing Remarks

Debbie Davis

**Conference 2: Intervention for Functional Auditory Deficits including CAPD**  
**March 4th, 2022**

Time (CST)	Title	Description	Speaker
		Intro and Land Acknowledgement	Kendra Usunier
1:00 - 2:00	Evidence-based Practice in the Diagnosis and Treatment of Central Auditory Processing Disorder	Drawing on the New Zealand Guidelines on Auditory Processing Disorder, the presentation will discuss the evidence-base for various tests and treatments for auditory processing disorder (APD) Diagnostic topics will include advantages and limitations of potential objective measures (electrophysiological evoked responses, acoustic reflexes) and trends in test development and functional assessment Treatments will be reviewed under the three key treatment groupings of auditory training; amplification; and language and literacy therapies.	Bill Keith
2:00 - 2:15		Open Discussion/Question & Answer Period	
2:15-2:30		<i>Break</i>	
2:30-3:30	Auditory Processing in Person-Centered Integrated Care for Older Adults	Age-related changes in auditory processing are associated with numerous psychological (e.g. dementia, depression), physical (e.g. falls) and social (e.g. loneliness, isolation) health issues. Age-related changes in auditory processing can affect functioning in many acoustically, informationally, and socially demanding situations in everyday life. This WHO guidance on person-centered integrated care for older people will be used to reframe a health promotion approach to rehabilitation and accessibility to maintain function for older adults experiencing age-related changes in auditory processing.	Kathy Pichora-Fuller
3:30 - 3:45		Open Discussion/Question & Answer Period	
3:45-4:00		<i>Break</i>	
4:00-5:00	Individualized Treatments for Specific Functional Deficits of Auditory Processing		Debbie Moncrieff
5:00-5:15		Open Discussion/Question & Answer Period	
5:15-6:30		<i>Supper</i>	

6:30-7:45 Panel Discussion

Bill Keith  
Kathy-Pichora-Fuller  
Debbie Moncrieff  
Paul Mick  
Natalie Phillips

7:45 - 8:00

Closing Remarks

TBA

Conference 3: Virtual Applied Evaluation and Intervention Techniques including cABR/FFR, ARIA, computer

May 13th, 2022

cABR/FFR - How to do it through interpretation and report writing

Presented by: Laura Polich

Time (MST)	Title
9:00 - 9:30	How cABR can be useful in CAPD evaluation
9:30 - 10:00	Collecting the Data
10:00 - 10:30	Analyzing the Data
<i>10:30 - 10:45</i>	<i>Break</i>
10:45 - 11:30	Looking at the Results in the Big Picture
11:30 - 12:00	Neural Signatures
<i>12:00 - 1:00</i>	<i>Lunch</i>
1:00 - 2:00	Case Studies: Using cABR within APD evaluation
2:00 - 3:00	Writing the CAPD Report that Incorporates cABR Testing
<i>3:00 - 3:15</i>	<i>Break</i>
3:15 - 4:15	Demonstration of How to Analyze the Data and Discussion of "Sticky Patches" Encountered while Recording

**Conference 3: Virtual Applied Evaluation and Intervention Techniques including cABR/FFR, ARIA, computer  
May 14th, 2022**

Time (MST)	Title	Description	Speaker
9:00 - 10:00	ARIA and Value of cABR in Evaluation Treatment Outcomes		Debbie Moncrieff
10:00 - 10:15		Open Discussion	
10:15 - 10:30		<i>Break</i>	
10:30 - 11:30	Computer Based Intervention with Applications for CAPD and Peripheral Hearing Impairment		Nancy Tye Murray
11:30 - 11:45		Open Discussion	
11:45 - 12:30		<i>Lunch</i>	
12:30 - 1:30	The Role of Amplification in Treating CAPD	This presentation will provide an overview of the value of amplification in the treatment of CAPD. Studies demonstrating the beneficial neuroplastic effects of amplification with remote microphone hearing aid systems will be reviewed and new research results on optimal amplification dosage will be presented. Trends will be discussed. A recent study shows benefit of open - fit low - gain hearing aids for adults with normal audiograms but there is debate over this technology solution for children. Research indicates that there are similar benefits of CAPD treatment for many people with Autism Spectrum Disorder.	Bill Keith
1:30 - 1:45		Open Discussion	
1:45 - 2:00		<i>Break</i>	

2:00 - 2:30	From Evaluation to Interventions to Outcomes - Case Studies from the Real	Canada	Debbie Davis
2:30 - 3:00	Word Audiology Clinic	USA	Tricia Nechodom
3:00 - 4:00	Identifying red flags and solutions for hearing problems beyond the audiogram	<p>We want anyone who walks through our doors with a hearing problem to walk out with a hearing solution. While most audiologists are familiar with diagnosing and treating hearing loss, far fewer know what steps to take for a person with a normal audiogram and complaints of hearing problems. During this lecture, Angela will take you through a step-by-step process on identifying red flags for auditory processing problems in people with and without hearing loss to give you ideas on potential solutions for clients with hearing problems beyond the audiogram.</p> <p>This lecture will include free tools, case study videos, and demonstrations of auditory training to improve auditory processing abilities in clients with and without hearing loss. If the ears are the hardware, the brain is the software. We need both to work well to have a great user experience. It's time to level up our game.</p>	Angela Loucks Alexandra
4:00 - 4:15	Open Discussion		
4:15 - 4:30	Wrap Up		Bill Keith

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1:00 - 2:00	Evidence-based Practice in the Diagnosis and Treatment of Central Auditory Processing Disorder
2:00-2:15	
<i>2:45 - 3:00</i>	
3:00 - 4:30	Individualized Treatments for Specific Functional Deficitis of Auditory Processing
4:30 - 4:45	
<i>4:45 - 6:00</i>	
6:00 - 7:30	Auditory Processing in Person-Centered Integrated Care for Older Adults
7:30 - 7:45	
7:45 - 8:00	

## Conference 2: Intervention for Functional Auditory De March 4th, 2022

### Description

#### Intro and Land Acknowledgement

Drawing on the New Zealand Guidelines on Auditory Processing Disorder, the presentation will discuss the evidence-base for various tests and treatments for auditory processing disorder (APD)

Diagnostic topics will include advantages and limitations of potential objective measures (electrophysiological evoked responses, acoustic reflexes) and trends in test development and functional assessment

Treatments will be reviewed under the three key treatment groupings of auditory training:

Open Discussion

*Break*

Open Discussion

*Supper*

Age-related changes in auditory processing are associated with numerous psychological (e.g. dementia, depression), physical (e.g. falls) and social (e.g. loneliness, isolation) health issues. Age-related changes in auditory processing can affect functioning in many acoustically, informationally, and socially demanding situations in everyday life. This WHO guidance on person-centered integrated care for older people will be used to reframe a health promotion approach to rehabilitation and accessibility to maintain function for older adults experiencing age-related changes in auditory processing.

Open Discussion

Closing Remarks

## Deficits including CAPD

Speaker
Kendra Usunier
Bill Keith
Deb Moncrieff
Kathy Pichora-Fuller
TBA

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4:45 - 5:00	Closing Remarks	Debbie Davis