

**Evidence-Based Decision Making: Troubleshooting Common Obstacles to External Scientific Evidence** 

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ASHA PROFESSIONAL DEVELOPMENT TAKE FIVE

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## **Speaker Disclosure**

- Financial:
  - Clinical Research Associate for the ASHA's National Center for Evidence-Based Practice in Communication Disorders(NCEP)



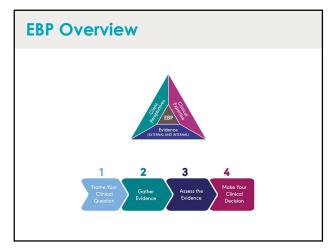
- Nonfinancial:
  - ASHA certified SLP and ASHA member

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## **Objectives**

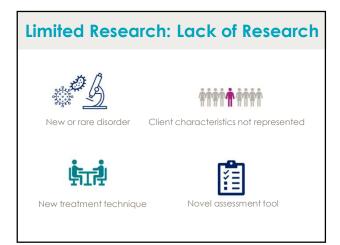
- Briefly review the components of Evidence-Based Practice (EBP),
- Describe common obstacles to identifying and applying external evidence to support clinical decision making,
- Identify solutions that can help clinicians overcome each of these obstacles, and
- Provide guided practice for using these solutions



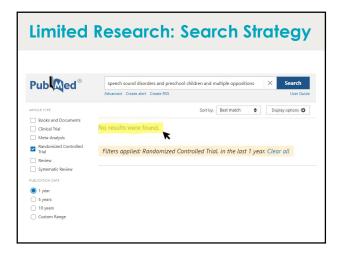




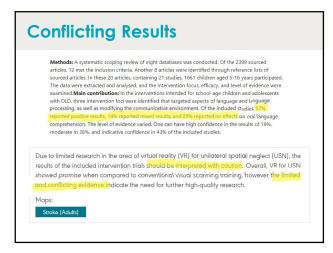


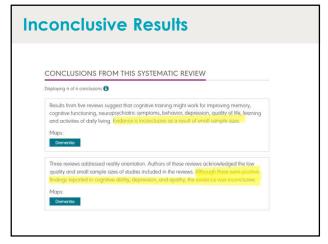










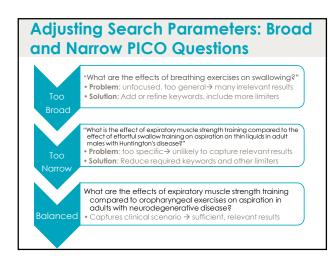


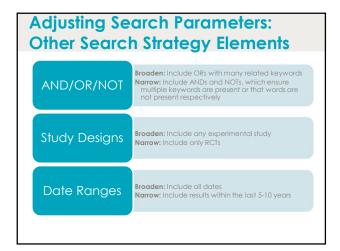






Adjusting Search Parameters: PICO Question		
Population	What are the characteristics and/or condition of the group?  Examples: age, diagnoses, severity, or linguistic or hearing status	
ntervention	What is the screening, assessment, treatment, or service delivery model that you are considering? Examples: hearing aid provision, instrumental swallowing assessment, or a particular dosage/format of services	
Comparison	What is the main alternative to the intervention, assessment, or screening approach? Examples: comparing specific treatment techniques or comparing the reliability or validity of assessment tool to the current gold standard tool	
Outcomes	What do you want to accomplish, measure, or improve? Examples: improved sound discrimination in noise, articulation, cognitive performance, or swallowing function	





Considering Alternatives				
	Intended	Relevant		
Population	Aphasia status-post TBI	Stroke populations		
Intervention	Visual Action Therapy	Gesture Facilitation of Naming		
Comparison	VFSS	FEES		
Outcomes	Percent consonants correct	Intelligibility		

Weighing Quality and Trustworthiness		
	Example consideration	
Study Design	An RCT is less likely to have biased conclusions when compared to a single case study	
Quality Assessment Tool	A study that has been assessed for quality, or one that receives a higher quality rating, may be more valid	
Levels of Evidence	A conclusion with a higher level of evidence may have more valid take-aways regarding clinical benefit	
Limitations	A study with a small sample size may be less trustworthy one with more participants	
Sponsoring Body/ Conflicts of Interest	Research published by authors with no conflicts of interest may be more reliable that one published by the creator of a product or therapy technique	
Publication Date	A more recent article may be more relevant or comprehensive than one published 20 years ago	

