INTRODUCTION

This journal self-study course is composed of papers from a 2019 Research Forum, Advancing Statistical Methods in Speech, Language, and Hearing Sciences. These selected articles provide advanced-level discussion about clinically relevant statistical methodologies to give speech-language pathologists a stronger foundation from which to analyze and understand the statistical research they come across to decide when and how to apply it in practice.

LEARNING OUTCOMES

You will be able to:

- Describe best practices in basic and more advanced inferential statistics that avoid errors and find true clinical significance
- Summarize the difference between frequential and Bayesian analyses as well as potential applications of each
- Describe how and why mixed-effects models are used when analyzing longitudinal data
- Explain types of clinical questions that could benefit from machine learning approaches

CONTENTS


The Evolution of Statistical Methods in Speech, Language, and Hearing Sciences, by Jacob J. Oleson, Grant D. Brown, & Ryan McCreery

How Mixed-Effects Modeling Can Advance Our Understanding of Learning and Memory and Improve Clinical and Educational Practice,
by Katherine R. Gordon


PROGRAM HISTORY and IMPORTANT INFORMATION

Articles originally published in ASHA scholarly journals
Start date: October 8, 2020
End date: October 8, 2023

To earn continuing education credit, you must complete and submit the learning assessment on or before October 8, 2023.

This course is offered for 0.9 ASHA CEUs (Advanced level, Related area).