

# Project ECHO Pediatric Dermatology for the Upper Midwest: Quality Improvement for Longitudinal Impacts by Participant Retention of Information

Brailyn Weber, BS, BA<sup>1</sup>, McKenzie Burian, BS<sup>1</sup>, DeAngela Ivory, BS, MPH<sup>2</sup>, Sarah Asch, MS, MD<sup>3</sup>

University of North Dakota, Grand Forks, North Dakota<sup>1</sup>  
University of Mississippi, Center for Telehealth Excellence, Jackson, Mississippi<sup>2</sup>  
Hometown Pediatric Dermatology, PLLC, Minnesota<sup>3</sup>

## Background

- Each month, Project ECHO hosts a virtual session on childhood dermatologic conditions
- It serves to connect rural healthcare providers with experts in pediatric dermatology
- The ECHO model is proven to improve primary care during intervention
- We began a quality improvement cycle to ensure longitudinal retention for a sustained impact on target audiences' practices.
- The goal of this QI was to analyze whether the current recall quiz method provides sufficient data to assess retention.
- Retention data can then be utilized to improve future ECHO sessions for attendees.

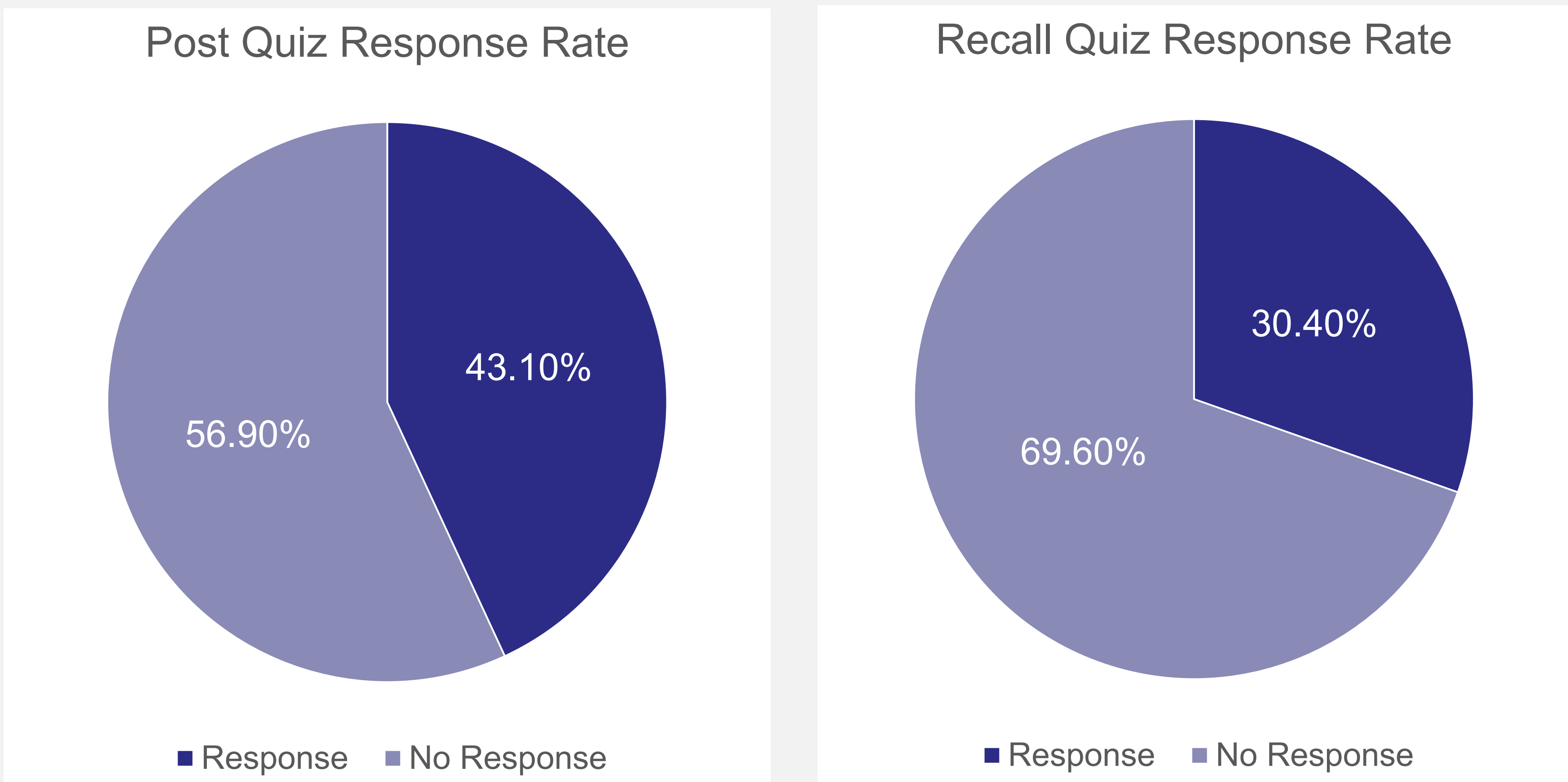
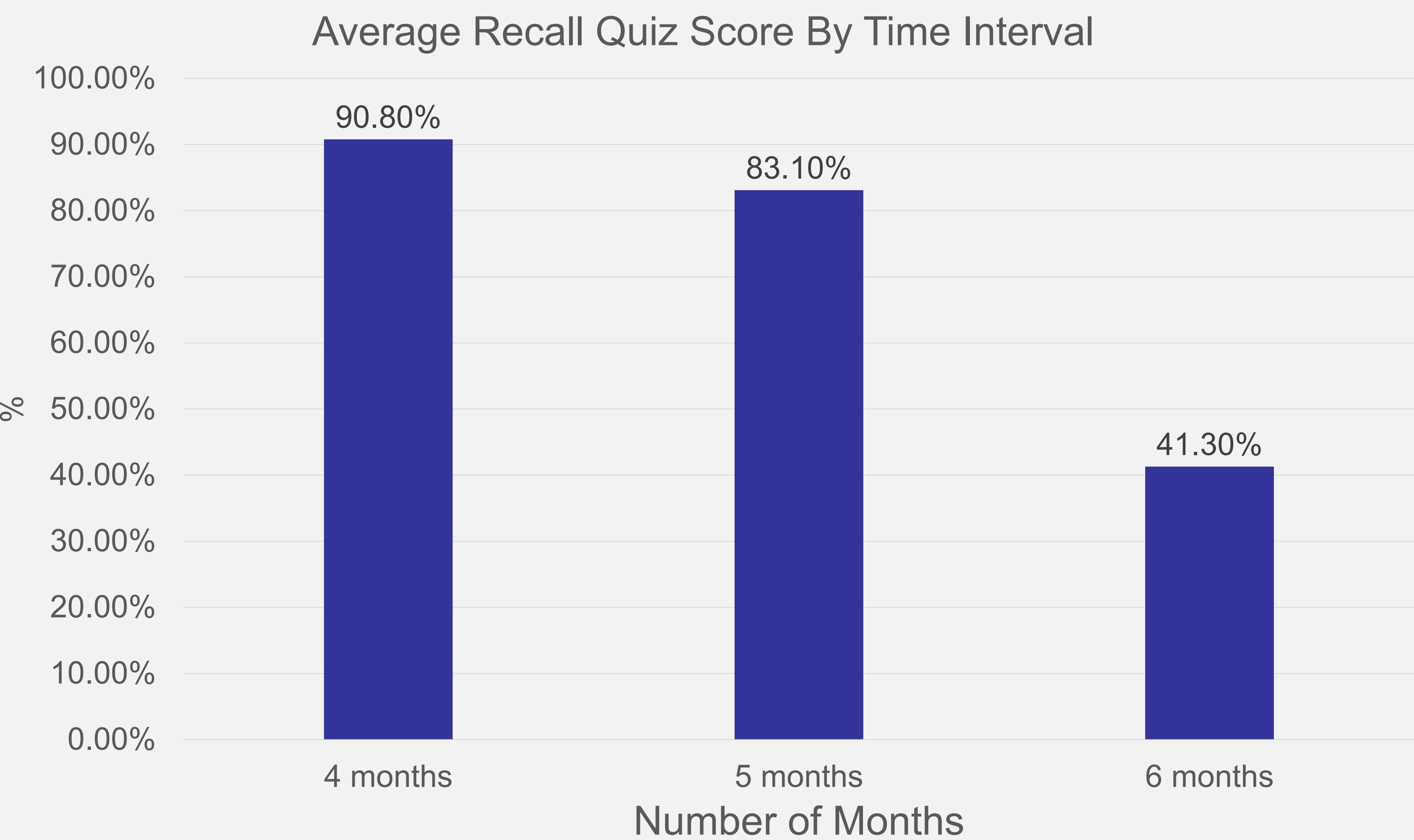
## Contact Information:

**Sarah Asch, MD**  
Email: [asch@hometownpediatricdermatology.com](mailto:asch@hometownpediatricdermatology.com)  
Website: [www.hometownpediatricdermatology.com](http://www.hometownpediatricdermatology.com)  
Phone: 612-234-2331 (office)

**DeAngela Ivory, UMMC Project Manager**  
Email: [divory@umc.edu](mailto:divory@umc.edu)



## Results



## Methods

- A quiz-based method of assessment was piloted
- Following each ECHO session, a T/F topic-based three-question quiz was sent to attendees
- An identical recall quiz was sent several months later
- Data from eight sessions was collected (March-December 2024)
- Endpoints included response rate and quiz scores

## Discussion

- Overall, participation rates in post-session quizzes represented a small number of participants
- A declining trend in recall quiz score was observed at greater time intervals
- Challenges of assessing this ECHO include its multistate outreach, episodic nature, and varying professional demographics
- Plan is to re-enter the PDSA cycle to determine the best assessments to ensure sustained impact on the target audience.

