

Does Recall Improve Delayed Feedback for Correcting Older Adults' Health-related Misconceptions?



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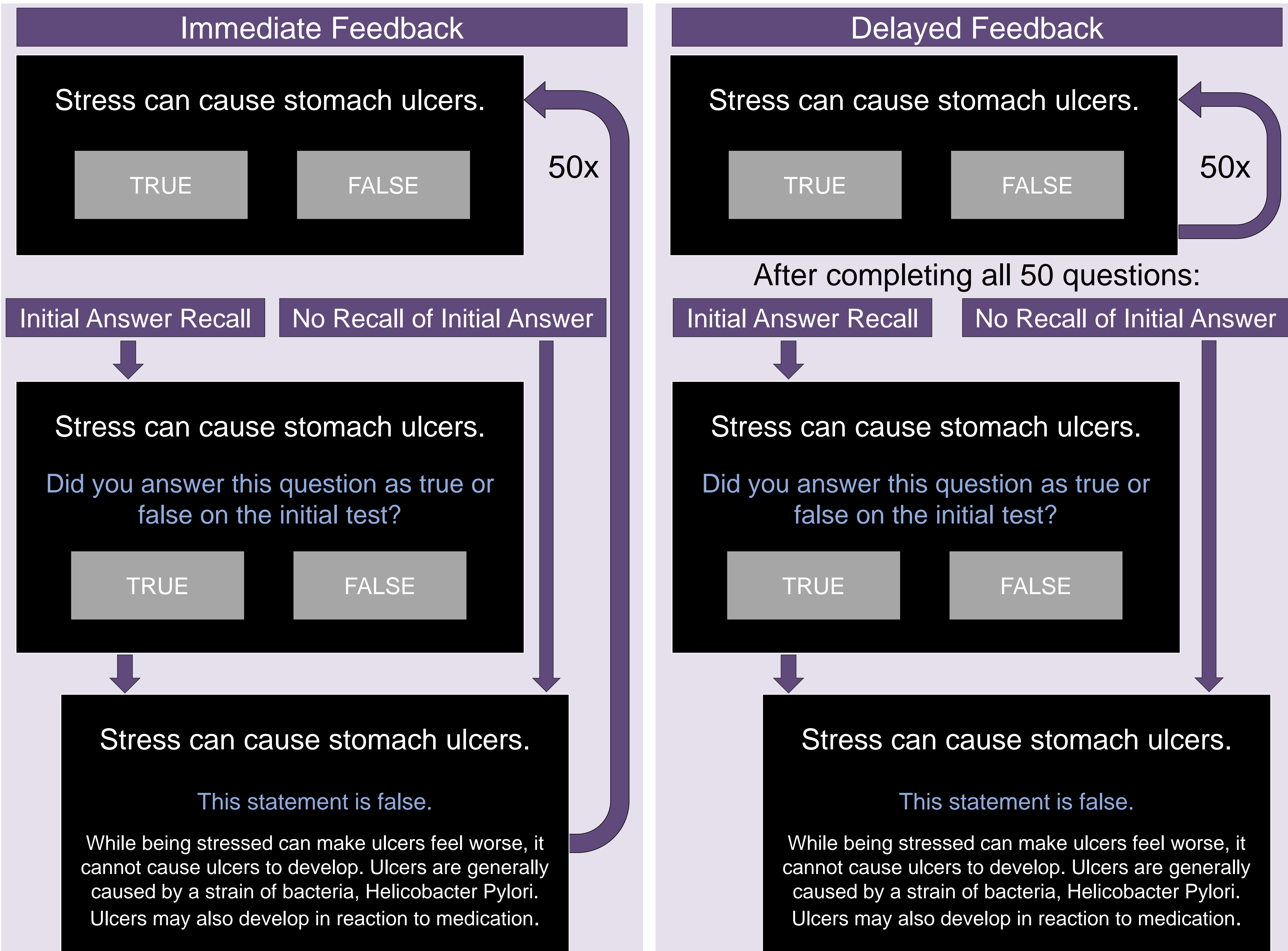
Introduction

- Correcting health-related misconceptions is essential, especially for older adults (typically 65+ years of age).
 - Providing detailed immediate feedback can correct health-related misconceptions for both older and younger adults (Sitzman et al., 2022).
 - However, the effect of delayed feedback on misconceptions is not known for older adults.
 - From the Knowledge Revision Components Framework (Kendeou & O'Brien, 2014), recalling an initial answer may enhance delayed feedback for correcting misconceptions.
- **Our goal: Explore how older and younger adults correct health-related misconceptions when receiving delayed feedback and when recalling an initial answer.**

Participants & Procedure

- **Between-Participant Design:** Feedback timing (Immediate versus Delayed) & Recall of Initial Answer (No recall versus Recall).
- **Participants:**
 - Younger adults: 114 TCU and EWU college-aged undergraduates (Immediate feedback with recall, $n = 29$; Immediate feedback with no recall, $n = 28$; Delayed feedback with recall, $n = 30$; Delayed feedback with no recall, $n = 27$)
 - Older adults: 151 participants recruited online, (Age: $M = 69.4$, $SE = .36$; Immediate feedback with recall, $n = 37$; Immediate feedback with no recall, $n = 40$; Delayed feedback with recall, $n = 39$; Delayed feedback with no recall, $n = 35$)

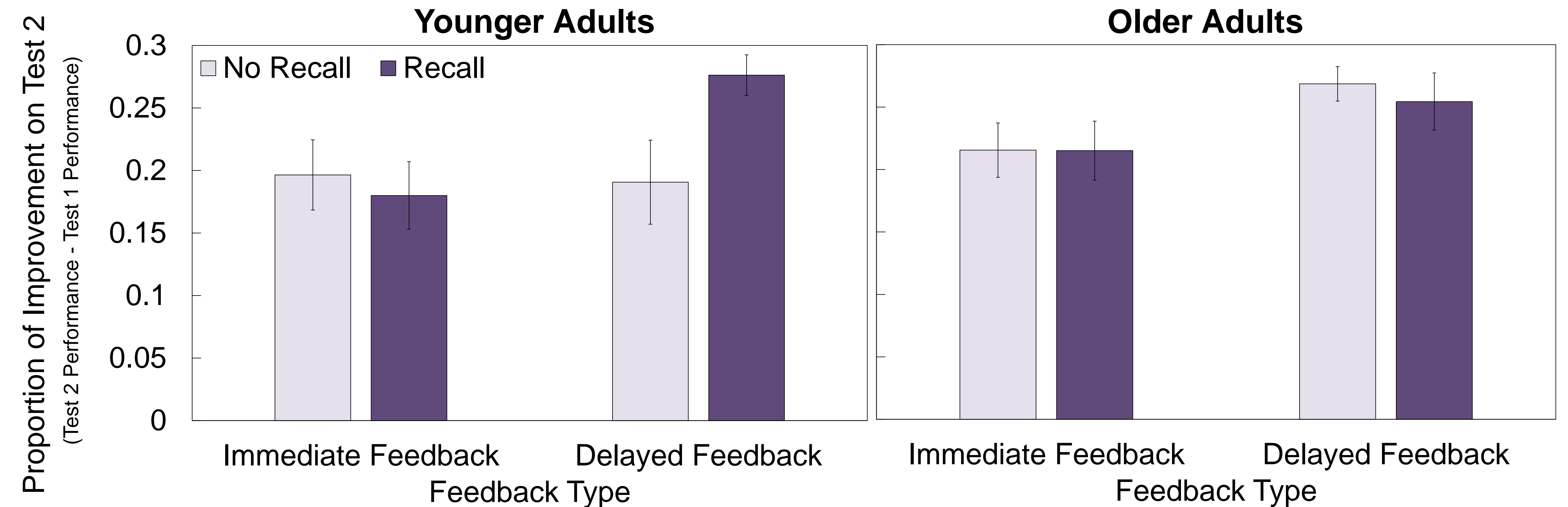
Test 1 on health-related concepts



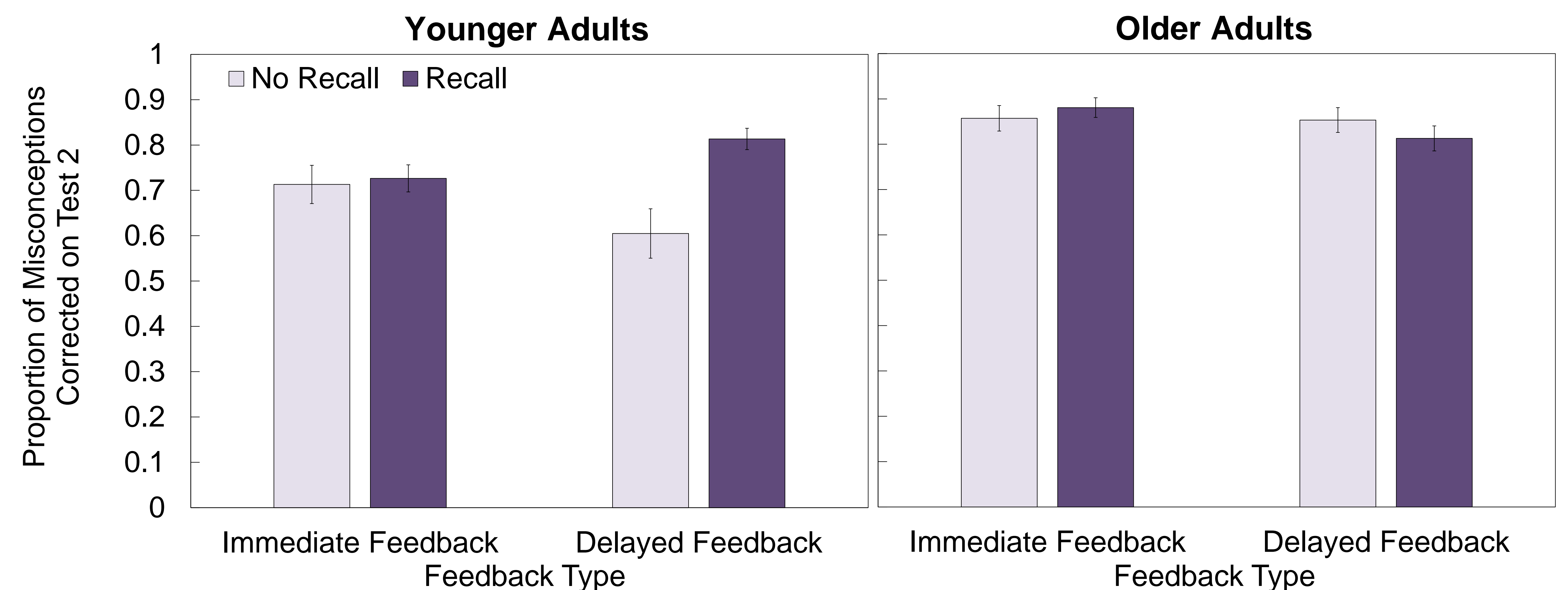
**After one week:
 Test 2 on the same health-related concepts**

Results

Proportion of Improvement on Test 2



Proportion of Misconceptions Corrected at Test 2



Discussion & Future Directions

- For younger adults, delayed feedback was most effective for correcting misconceptions after recalling their initial answer.
- However, for older adults, delayed feedback was effective for correcting misconceptions regardless whether the initial answer was recalled.
- Future work should explore why feedback timing and answer recall interact with age.