# Task Experience Improves Younger and Older Adults' Ability to **Memorize Important Medication Information** Esmeralda D. Herrera, Jordan Edwards, Emily Q. Anderson, Morgan D. Shumaker & Sarah K. Tauber

## Background

- Older adults can show memory decrements where learning and remembering paired associations (e. shark: ocean; Naveh-Benjamin, 2000)
- This may be important for older adults' ability to remember medication information (e.g., Advil + Aspirin = bleeding)
- Value-directed remembering (VDR) occurs when learners remember high-value (e.g., severe side effects) over low-value (e.g., mild side effects) information (Knowlton & Castel, 2022; Friedman al., 2015)
- Previous studies have shown older adults can prioritize remembering high-value informatio as well as younger adults (Murphy et al., 2023).

### **Experiment 1**

• How well do younger and older adults prioritize remembering severe over mild and moderate medication interactions?

#### **Experiment 2**

• How much task experience is necessary for younger and older adults to optimize learning di interactions?

#### Participants

Experiment 1

#### N = 120 via Prolific

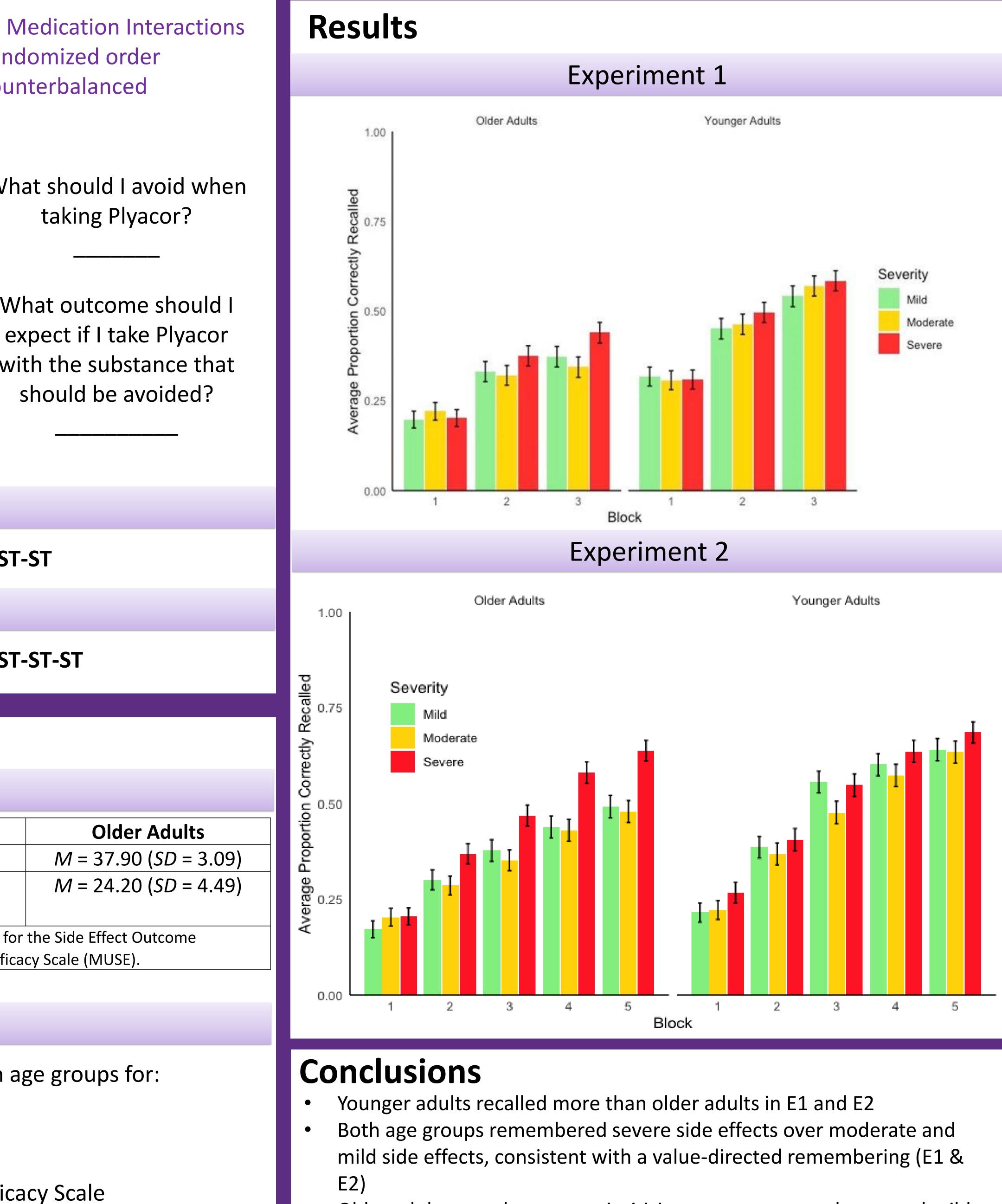
- 60 Younger Adults (*M* = 25.80, *SD* = 4.93 years ol
- 60 Older Adults (M = 65.20, SD = 2.98 years old)

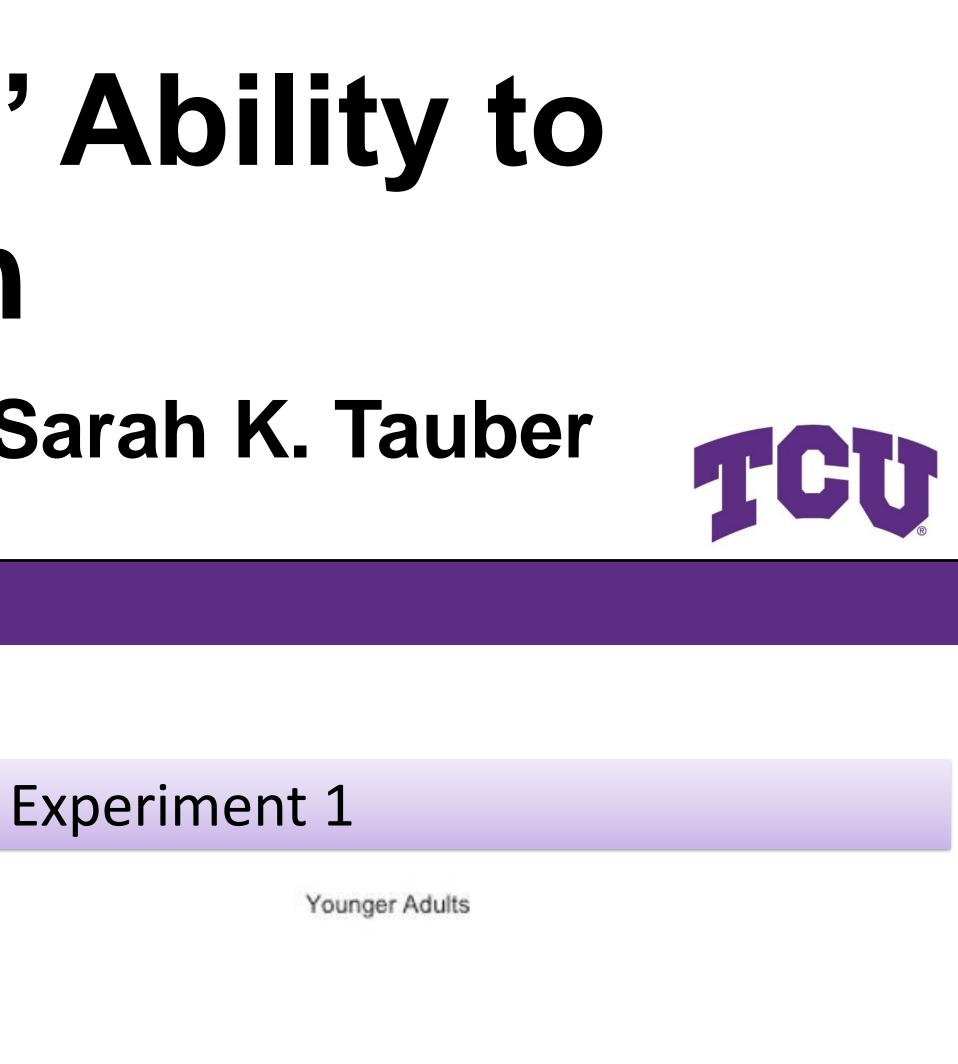
#### Experiment 2

#### N = 117 via Prolific

- 67 Younger Adults (*M* = 30.30, *SD* = 5.80 years ol
- 50 Older Adults (M = 66.50, SD = 5.21 years old)

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on	Warnings   Avoid Lipal   because it could   cause dizziness     Warnings	Vł W w
2	Experiment 1 3 Study + Test Trials: ST-	S7
Irug	Experiment 2 5 Study + Test Trials: ST-ST- Results	ST
	Experiment 1	
	Younger Adults	
	Health Knowledge* $M = 35.80 (SD = 4.54)$ Side Effect Knowledge $M = 22.50 (SD = 4.68)$	
old)	Subscale* * <i>p</i> < .05. There were no significant differences between age groups Expectations Subscale or Medication Understanding and Use Self-ef	
)	Experiment 2	
	<ul><li>There were no significant differences betweer</li><li>Health Knowledge</li><li>Side Effect Knowledge Subscale</li></ul>	ן מ





Older adults were better at prioritizing severe over moderate and mild side effects than younger adults in E2, but not in E1