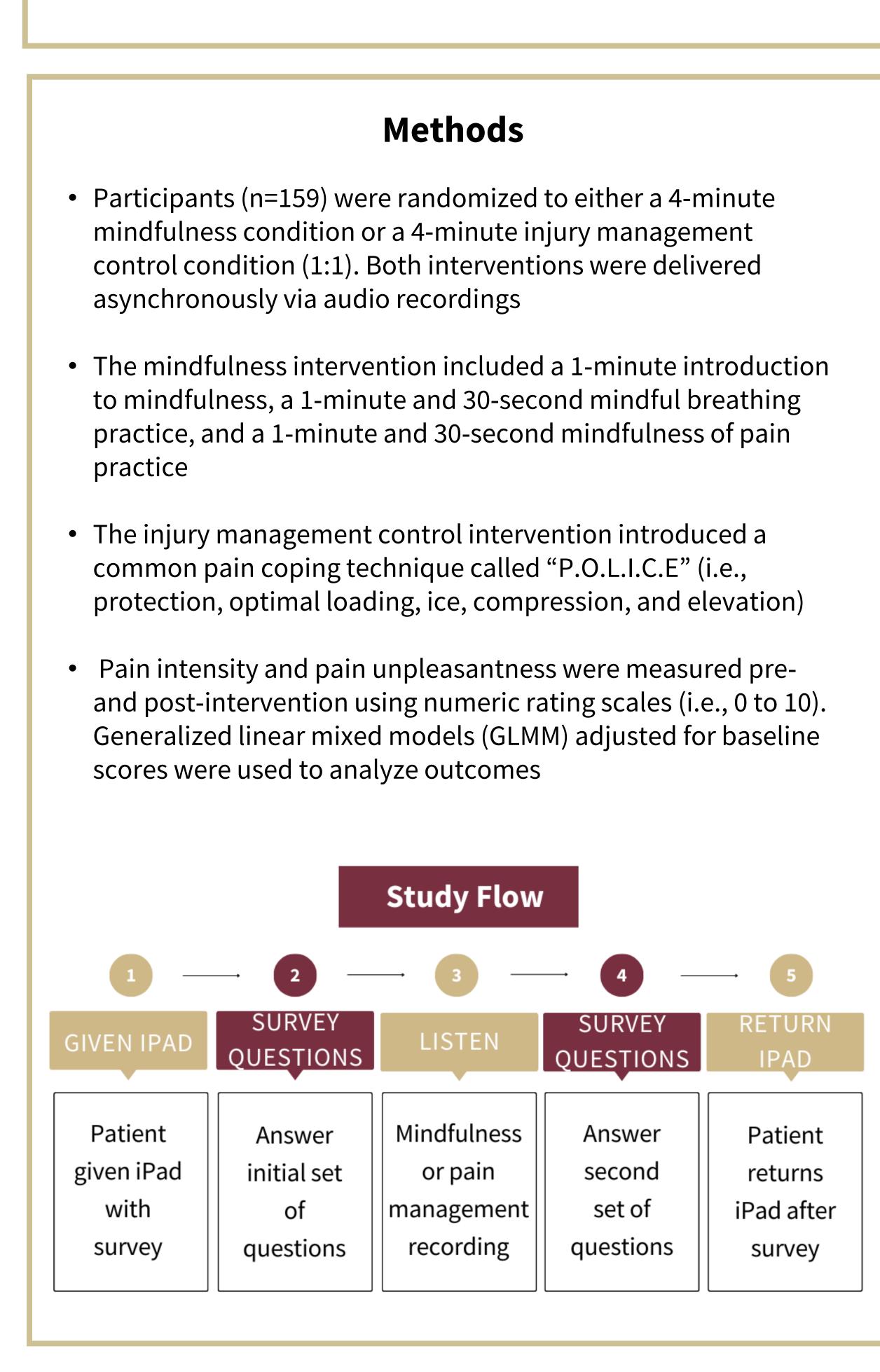


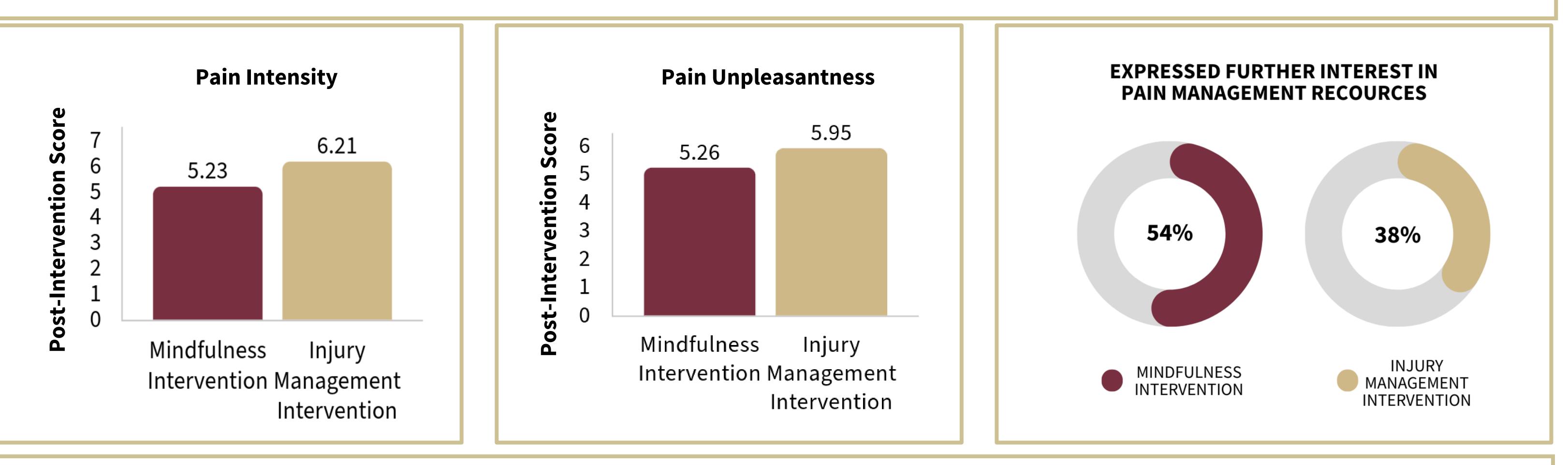
### Introduction/Background

- Mindfulness as a state, trait, process, type of meditation, and intervention has been proven to be beneficial across a diverse group of psychological disorders as well as supporting a general reduction in stress
- There is little known about the impact of brief, audio-recorded mindfulness interventions on patients' pain while in a clinic waiting room
- The hope is that this brief, audio-recorded session of mindfulness will expose the participants to the effects of mindfulness and help reduce pain intensity levels



# 4 Minute, Asynchronous Mindfulness Intervention in the X-Ray Waiting Room: **Results from a Randomized Clinical Trial Isabella Miller and Adam Hanley**

- 159 participants were included in the final sample, with 79 randomized to mindfulness and 80 to injury management
- to the control group



- time-and attention-matched control condition that provided best practice information about injury management
- management resources
- However, future clinical efficacy trials are needed to test this potential generalizability
- important limitations should be considered when interpreting these results

  - improved

# Results

• Participants in the mindfulness condition reported significantly lower post-intervention pain unpleasantness (5.26 vs. 5.95, p=.021) and pain intensity (5.23 vs. 6.21, p<.001) compared

Both conditions showed within-group pain reductions, but the decreases were greater in the mindfulness condition group (p<.05) • Notably, 35% of mindfulness condition group participants experienced a **clinically meaningful pain reduction** (>15%), compared to 20% in the injury management group (*p*=.044) • Additionally, more mindfulness participants expressed interest in further pain management resources (54% vs. 38%, p=.032)

## Discussion

• The purpose of this study was to evaluate whether a brief, asynchronous mindfulness intervention could decrease orthopedic patients' pain while they waited for an x-ray • Results indicated that participants receiving the 4-minute mindfulness intervention reported significantly less pain unpleasantness and pain intensity relative to participants receiving a

• This brief intervention is a highly scalable approach to pain management that requires no clinician involvement and appears to enhance patients' motivation to seek additional pain

**Strengths & Limitations** References Despite study strengths, including the randomized controlled design employing a time- and attention-matched control condition and a large sample size, two • Individual participants' pain conditions, current pain medication usage, and prior mindfulness exposure were unknown • 29% of individuals invited to participate declined due to a lack of interest or being in too much pain, implying the acceptability of this intervention could be



