# An Exploration of the Utility of ACT to Increase Tolerance to Induced Pain

### Introduction

- Acceptance and Commitment Therapy (ACT) is a thirdwave form of Cognitive Behavioral Therapy.
- The goal of ACT is to decrease avoidance of internal discomfort while promoting behavioral changes congruent with one's values (Hayes et al., 2006).
- > Leeming (2016) explored the utility of ACT to increase mental toughness among high performance athletes
- > ACT has been effective for increasing tolerance to chronic pain (Vowles & McCracken, 2008).
- > However, few studies have explore the potential efficacy of ACT when pain is systematically induced.

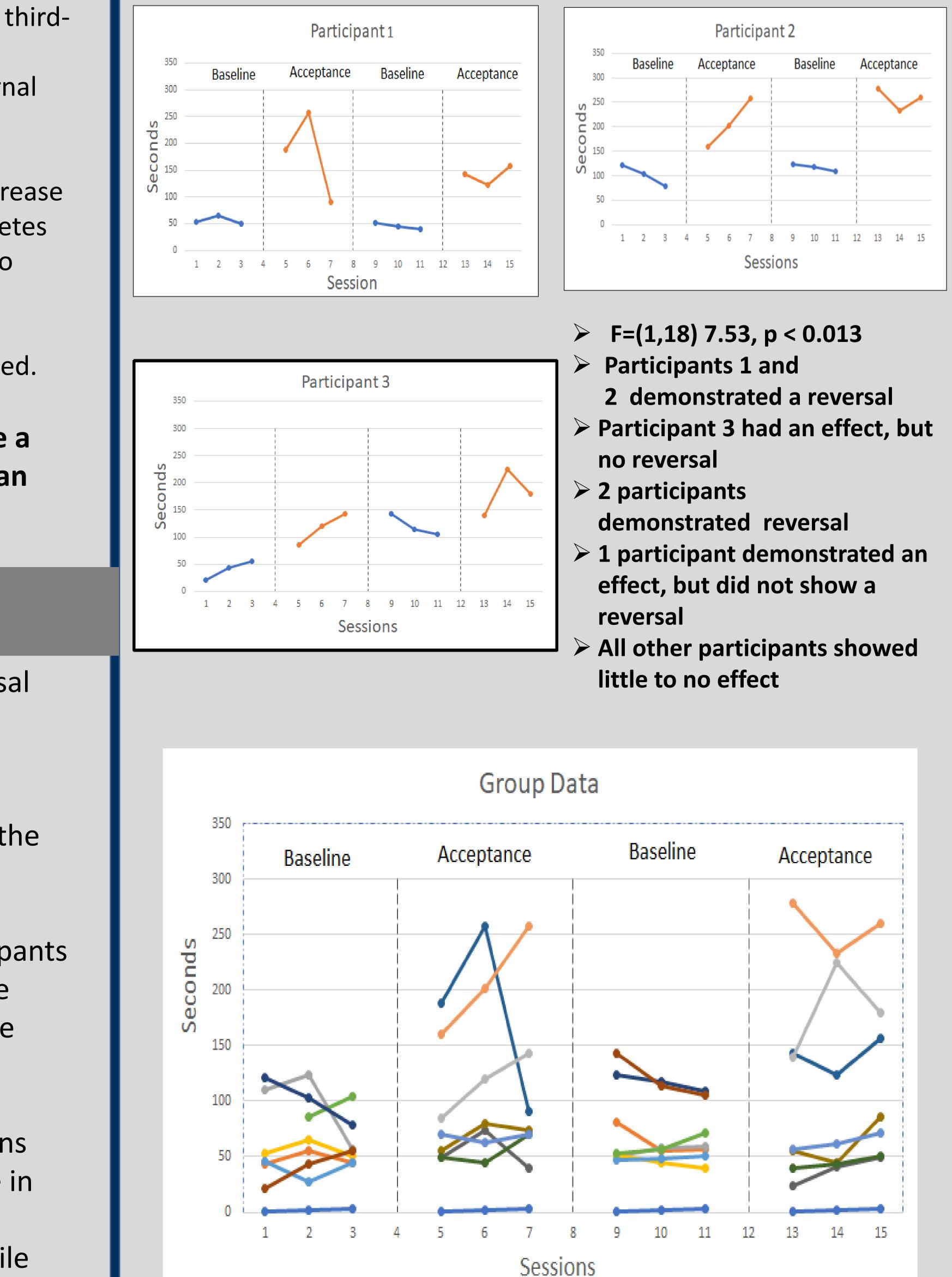
#### **Research Question: Does acceptance have a** meaningful impact on the duration one can withstand induced pain?

## Methodology

- Participants (n=7) completed an ABAB reversal design
- > A=Baseline, B=Acceptance
- > Participants completed 4 sessions, via Zoom
- Frostbite Safety Information Obtained from the Mayo Clinic
- In each session:
  - Modified Cold Pressor Test: Participants required to hold a 1.5 inch ice cube against their tongue and soft palate
  - > 3 Trials
  - > 2 Breaks
  - Variable Time Schedule of Questions
- > Baseline: "Are you continuing to hold the ice in place?"
- > Acceptance: "Are you willing to continue while experiencing what shows up?"

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#### Results



# between acceptance and baseline conditions.

- Potential Applicability:

  - first responders
- > Limitations:
  - Numbness
- Future Research Directions:
  - Add attention checks
  - birth etc.)
  - skills in participants

#### **References** (APA format)

Hayes et al. (2006). Acceptance and Commitment Therapy: Model, processes and outcomes, Elsevier 2006 Stoddard, J. A., & Afari, N. (2014). The Big Book of ACT Metaphors: a practitioner's guide to experiential exercises and metaphors in Acceptance and Commitment Therapy. New Harbinger Publications. Vowles, K. E., & McCracken, L. M. (2008). Acceptance and values-based action in chronic pain: a study of treatment effectiveness and process. Journal of consulting and clinical psychology, 76(3), 397.

## Discussion

**Summary of Results: We found a significant difference** 

> Acceptance-based interventions for soldiers training for interrogation > Could inform acceptance-based interventions for

> Distractions from the natural environment > Low motivation to attend to experimental demands and lack of attention > Procedural fidelity failure- one participant exceeded the maximum time

Run similar procedures in real-world settings (e.g.)

with soldiers in training, pregnant mothers giving

Look into generalization and maintenance of ACT