



# Pain vs Success

We R: Jasmine, Sarah, Syrine, Ellen, Marta

# Research Question:



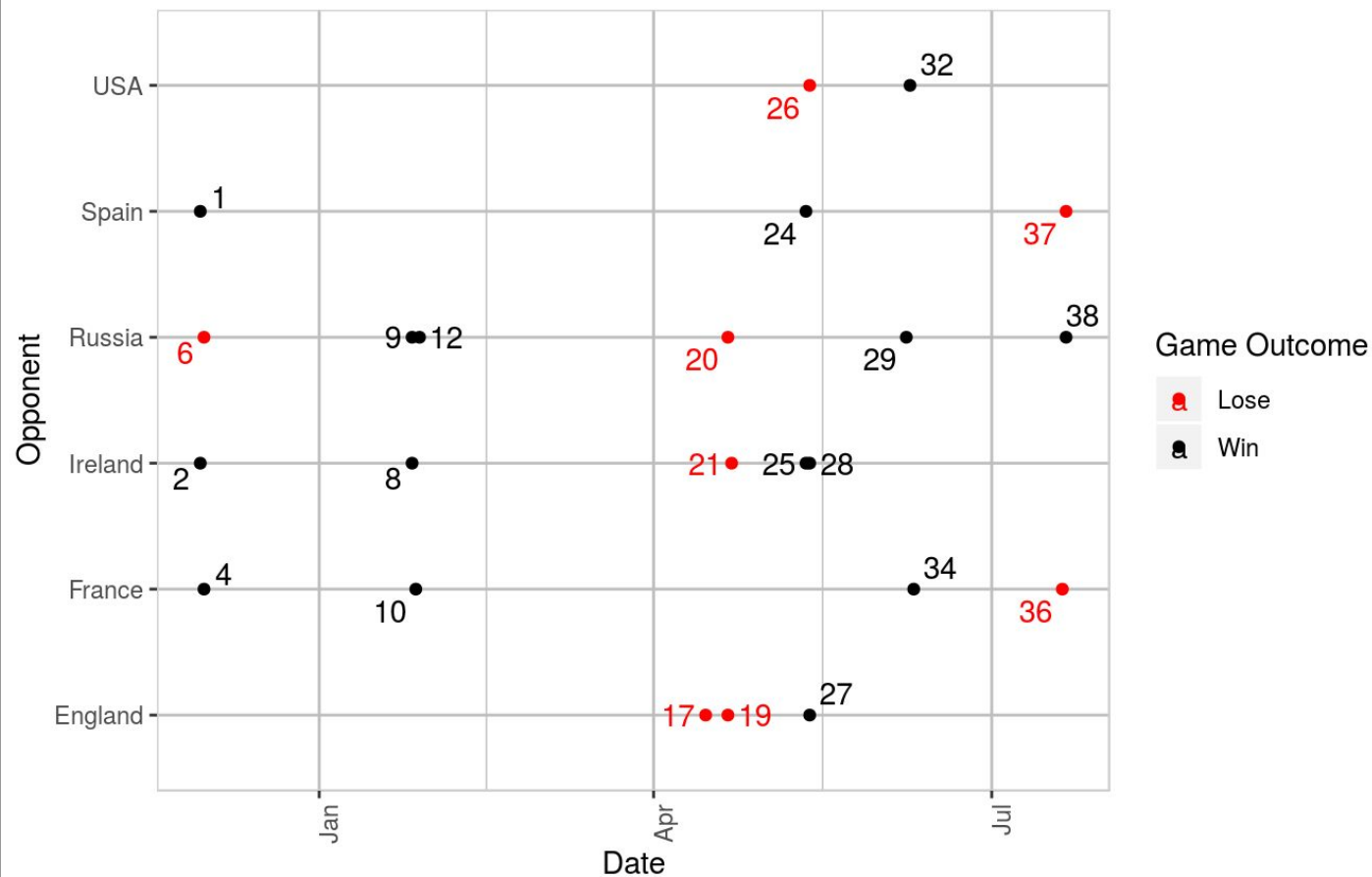
— — —  
Is there a correlation between pain and success in tournaments? Specifically the accumulation of pain in a range of days before the first day of a game.

H0: Pain does not impact tournament success

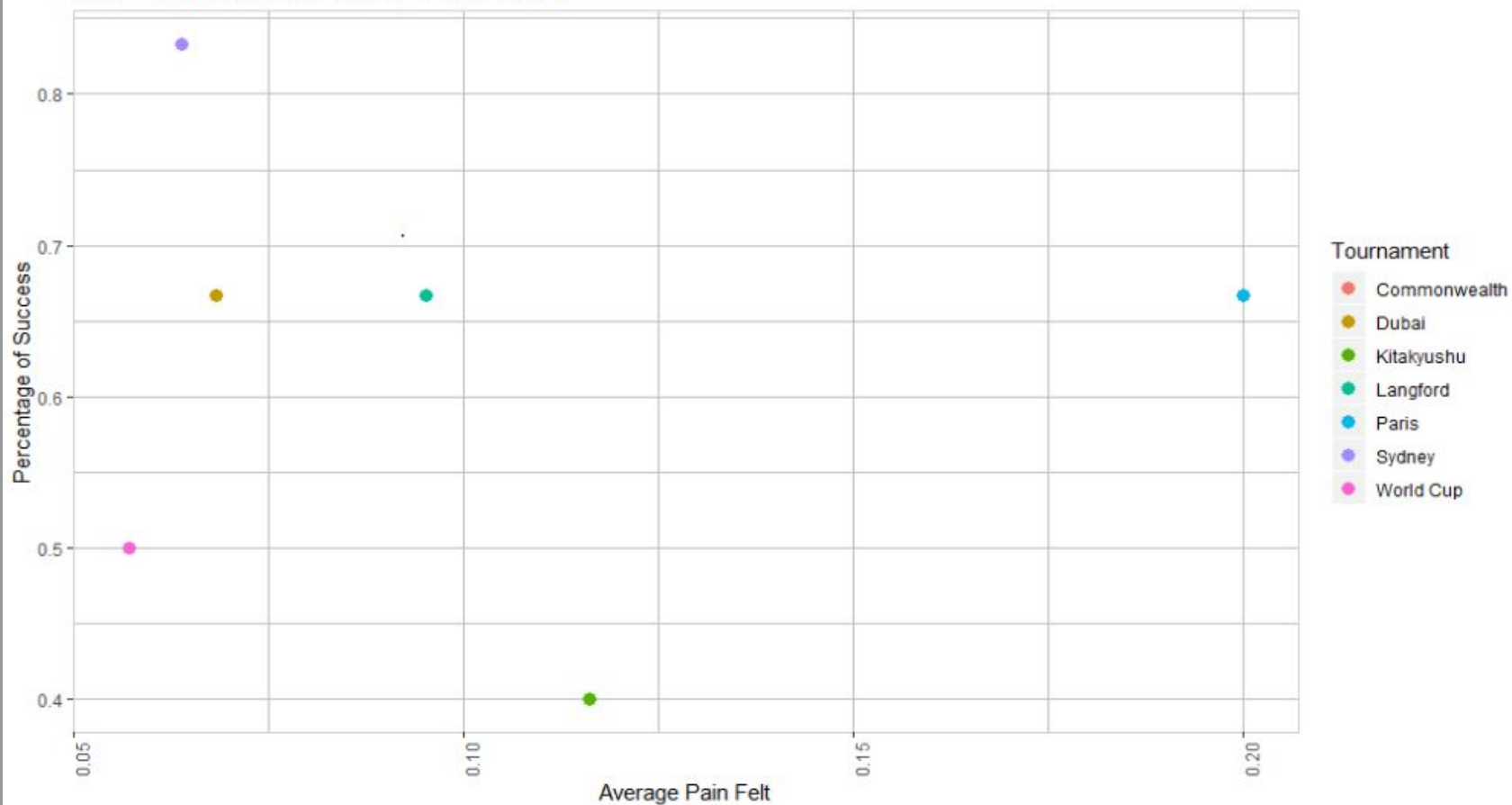
H1: Pain affects tournament success.

# Wins and Losses - evenly matched games

In respect to Pain

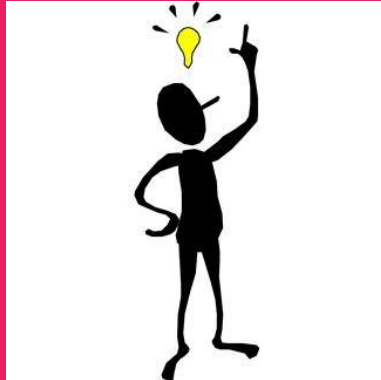


How Pain Affects the Outcome of a Game



# Results

- Discovered no correlation:  $p = 0.78$ 
  - Different from what we had hypothesized
  - Could be linked to missing data--had a lot of NA
- Fail to reject Null Hypothesis
- For further research..let's look at the right!



# Further Ideas

- Enter more specific data as to how pain is measured:
  - Ex:
    - List injuries
    - Chronic illnesses
- Determine whether medication are taken
  - Ex:
    - Athletes taking over-the-counter painkillers to relieve the pain in order to play
    - Information missing but understandable that it is invasive
    - Medication has been known to influence fatigue from a medical standpoint

— — —