

## The effect of one-word repetition and compound word repetition on negative thoughts related to the self: A preliminary study

Natsumi Tsuda, M.A.\*1 \*2, Takashi Muto, Ph.D.\*3

\*1 Graduate school of Doshisha University, \*2 JSPS Research Fellow, \*3 Doshisha University E-mail: natsumit.0624@gmail.com

# Study Objective

- **Background** · Word Repetition (WR), a cognitive defusion technique, is effective for self-related negative words.
  - ·Most word repetition exercises use simple words (e.g., depression, anxiety, stupid).
  - ·However, there are certain words that combine two words to yield a new meaning (compound words, e.g., social anxiety or communication disorder)
  - →the effect of WR using compound words has not been studied.

Objective To examine the effectiveness of WR to reduce negativity and believability in self-related negative thoughts using compound words.

- Hypothesis ♦ Repeating only TEA has no effect on negativity and believability in self-related negative thoughts.
  - ♦ Repeating a single negative word and compound negative words reduces negativity and believability in self-related negative thoughts.

# iMethod

### **Participants**

Undergraduate Students (N=37)

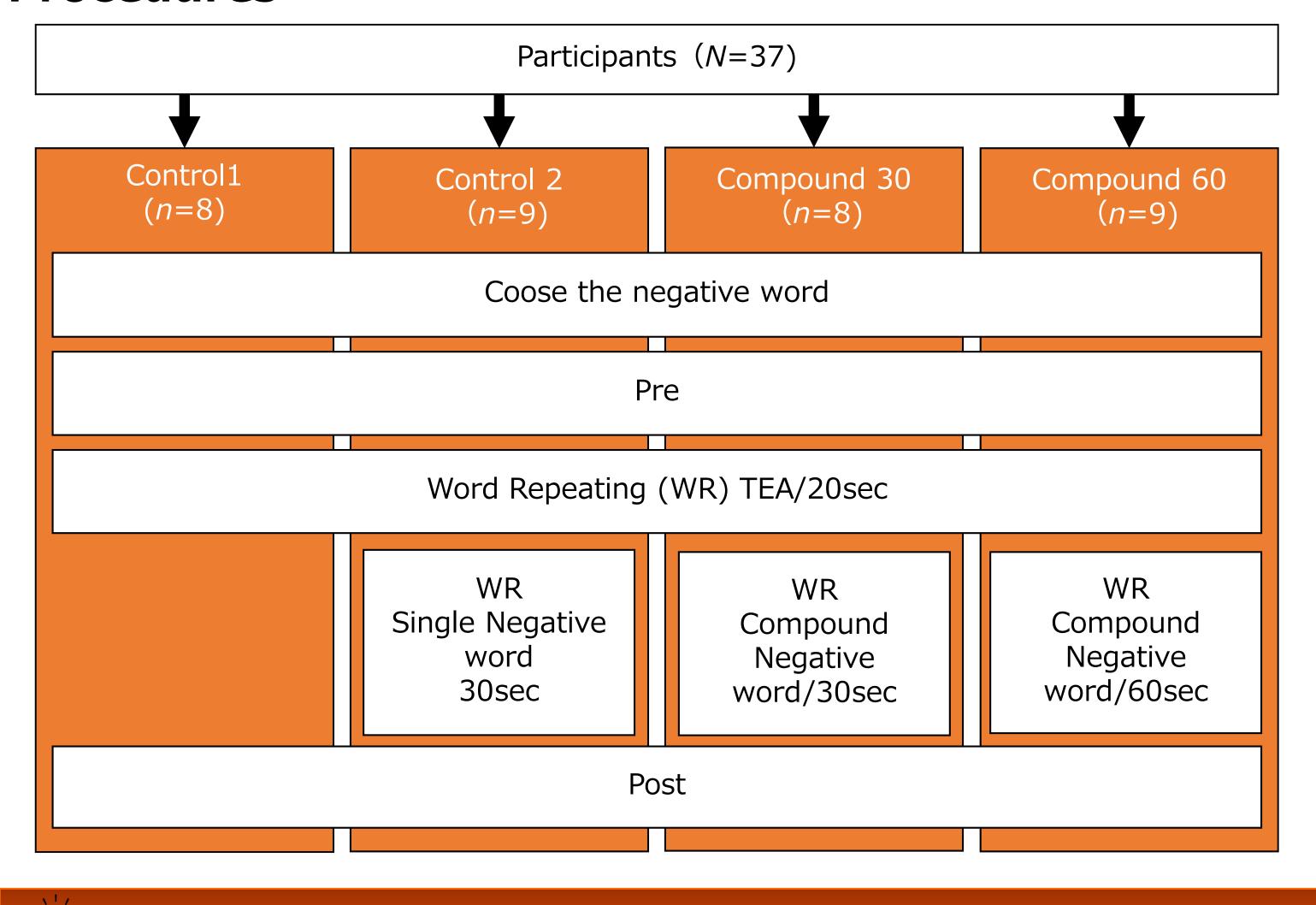
#### Measures

- 1) Negativity for negative words related to the self
- 2) Believability for negative words related to the self →Both of them were VAS (0-100)

#### **Interventions**

- ◆ All the participants engaged in a WR exercise. The Milk Exercise was used as the defusion exercise. We used "O-CHA" (meaning tea in Japanese), as tea is more familiar than milk in Japan.
- ◆ However, the type of words chosen and time of negative word repeating were different between groups.
- Participants were randomly assigned to 4 groups.
- 1) Control 1: "O-CHA (20sec %same time in all of groups)"
- 2) Control 2: "O-CHA" +Negative simple word (30sec)
- 3) Compound 30: "O-CHA" + Negative compound word (30sec)
- 4) Compound 60: "O-CHA" + Negative compound word (60sec)

### **Procedures**

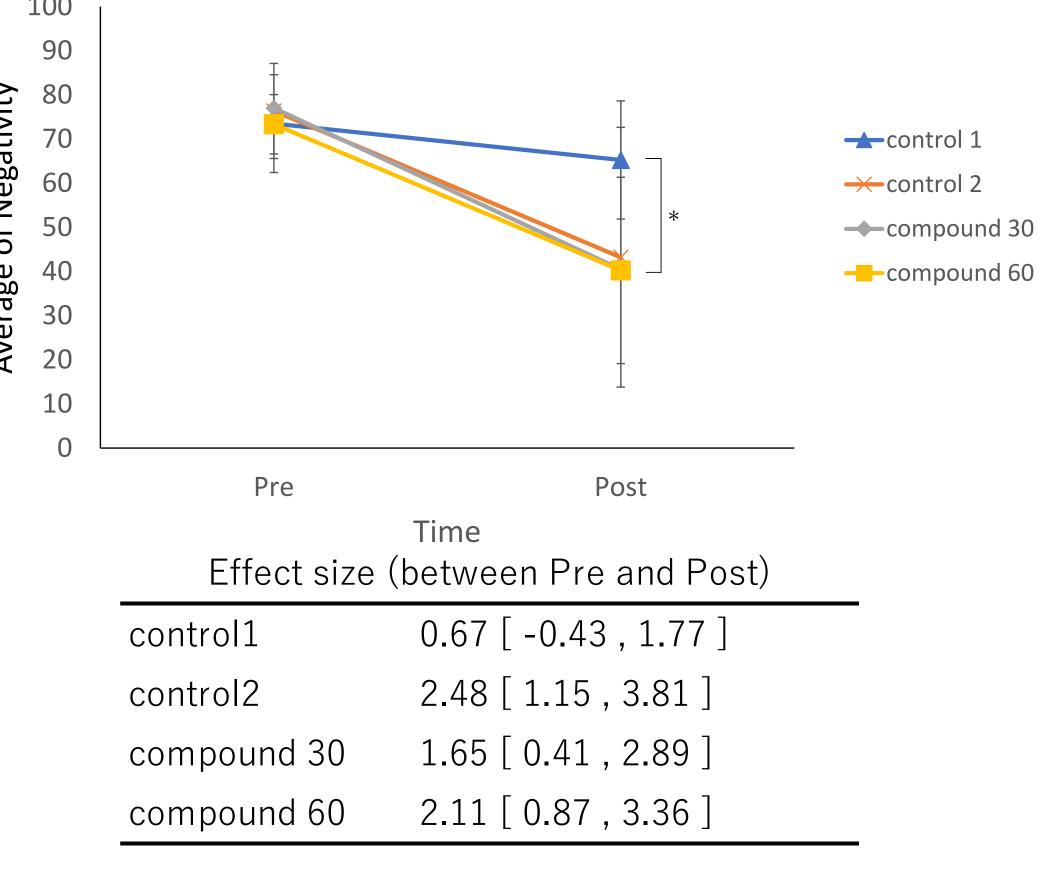


## Results

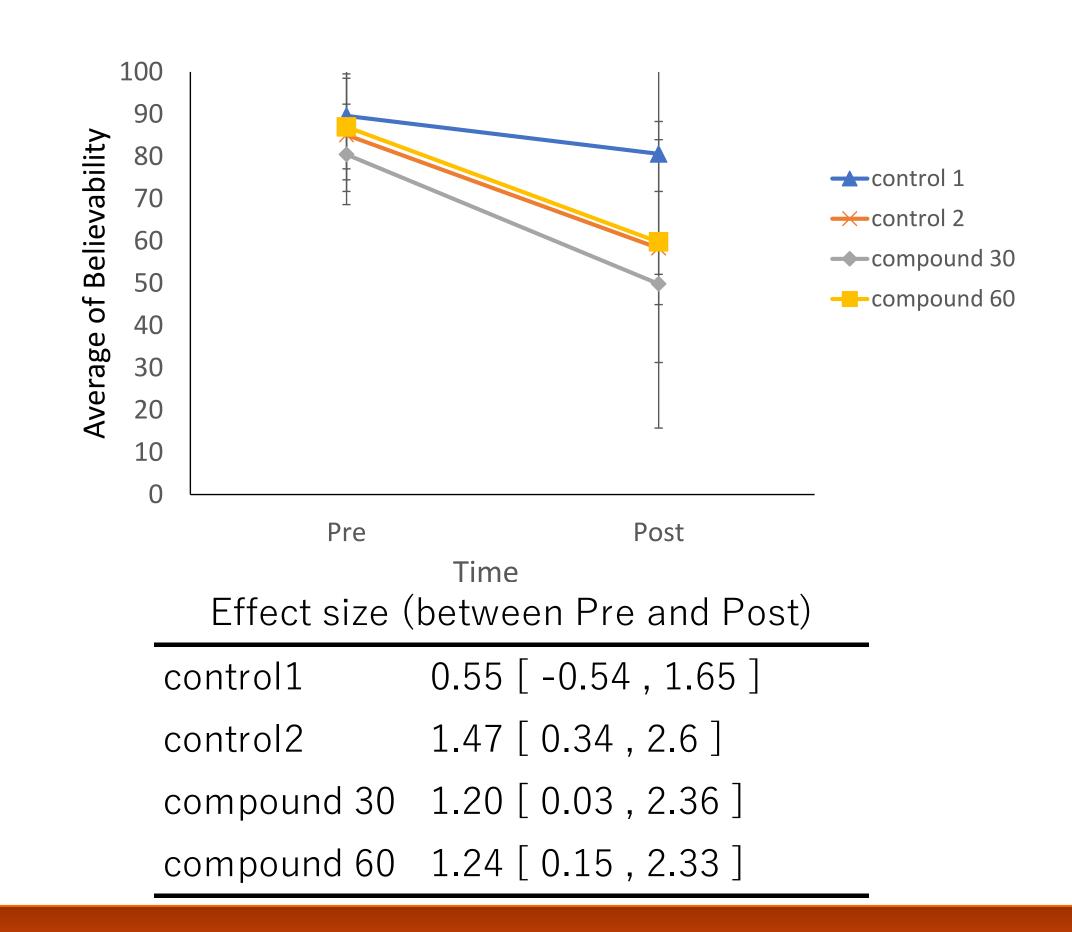
- ✓ ANOVA was conducted to negativity and believability. The effect size (within-d) was also calculated.
- (1) Negativity of words: main effect of time and interaction (Time: F(1, 30) = 64.99, p < .01; Time×Groups: F(3, 30) = 3.46, p < .05)

Significant difference at post-treatment: control 2, compound 30, and compound 60 compared with control 1 (control1-control2: t(30) = 2.14, p < .05; control1-compound word 30sec:

t(30)=2.34, p<.05; control-compound word 60sec : t(30)=2.44, p<.05)



(2) Believability of words: main effect of time (Time: F(1, 30) = 37.85, p < .01)



# Conclusion

- ◆ WR reduces negativity toward negative words related to self regardless of the word type.
- ◆ However, the effectiveness for believability was not enough.
  - → a part of the hypothesis was supported
- ◆ It is possible that this was caused by the limited number of participants, however, there is also the possibility that believability is difficult to change using WR.

