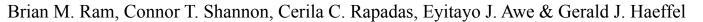
# The Effects of Repeated Finger Flexion Movements on Self-Reported Approach



# **Motivation are Inconsistent and Weak**





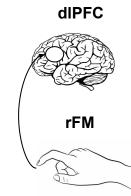


#### **BACKGROUND**

The approach-appetitive motivation system regulates behavior to attain rewards and pursue goals. Higher levels of approach motivation are associated with higher levels of well-being.

Theories of embodiment claim that motor movements can be used to activate this system.





## **METHOD**

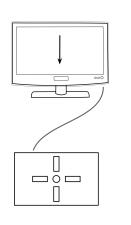
Study 1: Direct Replication N = 216Study 2: Conceptual Replication N = 246

#### Repeated Flexion Movement Task (rFM)

- rFM condition: 300 trials, 90% flexion - active control: 300 trials, 50% flexion

#### Measurements

Behavioral Activation/Inhibition - BAS/BIS Positive/Negative Affect - PANAS Anagram Task (2 solvable, 3 unsolvable)



### **PURPOSE**

The purpose of the current research was to provide both a direct and conceptual replication of prior work testing the effect of repeated flexion movements on approach motivation and positive/negative affect.

Outcome	Original Study (Haeffel, 2011)	Direct Replication	Conceptual Replication
BAS Total			<b>√</b>
Orive	<b>√</b>		
Fun			
Reward			
Positive Affect		<b>√</b>	
Negative Affect			
Time on Lab Task	<b>√</b>		

#### **RESULTS**

Study 1 found a statistically significant effect of rFM on positive affect (p = .006), but not on approach motivation or persistence on a difficult anagram task.

Study 2 found a statistically significant effect of rFM on approach motivation (p = .035), but not on positive affect or persistence on a difficult anagram task.

#### DISCUSSION

All three studies found a significant result in the expected direction. However, no significant findings were for the same variable and when present, the effect sizes were small.

Strengths included the use of two well-powered studies that included both direct and conceptual replication attempts.

Positive findings in previous literature are likely due to change findings and selective reporting, which leads to a biased and non-replicable research base.

Repeated finger flexion movements are not recommended for use as a clinical tool to increase approach motivation.