Acceptance and Commitment Therapy for Procrastination in University Students : Evaluation of Efficacy

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Background & Objective

 \checkmark Long-term procrastination leads to maladjustment – e.g., depression, stress, poor academic performance.

 \checkmark There is a correlation between psychological flexibility and procrastination (Glick et al., 2014).

✓ A Japanese case study found acceptance and commitment therapy (ACT) may be an effective psychological and behavioral measure of procrastination. We examined the effects of acceptance and commitment therapy (ACT) on procrastination in university students and analyzed the psychological and behavioral measures of procrastination.

Method

Participants: 47 Japanese undergraduates (women n = 39, 18-22 years, Mean age = 19.73 years)

Outcomes

- **Primary outcomes**
- Psychological indicator
- Japanese version of the General Procrastination Scale (GPS)
- Behavioral indicator
- Task achievement rate for seven days
- = Number of tasks performed in 7 days / Number of tasks to be performed in 7 days

Process outcomes

AAQ-II (Acceptance and Action Questionnaire-II) (Five-Facet Mindfulness Questionnaire) • FFMQ

Treatment Protocol

- Analysis of the function of procrastination.
- Defusion from linguistic relationships that promote avoidance of the experience.
- Mindfulness exercises as alternatives to avoidance.
- Exploration of the students' values and promotion of valued actions.



Results

Analysis: The correlation of each variable at baseline was tested with the Pearson

correlation coefficient.

Table1 Baseline Correlations Among Study Variables

Variable	AAQ-II (p value)	FFMQ (p value)
GPS	r = -0.05 (0.77)	r = - 0.40 (0.01**)
AAQ-II		r = -0.57 (0.00**)

Analysis: For missing data, we analyzed using a linear mixed model.



Experimental Group	Control Group	Liner mixed	Between
		model	groups

Primary outcomes

• Behavioral indicator

Task achievement rate for seven days





Dependent variables	pre Mean (SD)	post Mean (SD)	Cohen's d	pre Mean (SD)	post Mean (SD)		Interaction effect	Cohen's d
						Cohen's <i>d</i>	F	
Achievement	(0.16)	(0.14)		(0.17)	(0.21)			
rate GPS	56.86 (3.37)	52.31 (4.56)	-1.18	55.04 (2.37)	53.64 (4.01)	-0.44	8.35**	0.32
AAQ-II	39.00 (9.87)	39.29 (8.88)	0.03	33.45 (8.69)	32.64 (9.90)	-0.09	0.18	0.72
FFMQ	100.35 (12.54)	106.00 (13.59)	0.44	102.05 (15.24)	100.09 (16.37)	-0.13	4.81*	0.40

Note) *p<.05.**p<.01.***p<.001.

Discussion

 \checkmark Analysis of changes in the four indices showed that the experimental

group reported an improvement in both the task achievement rate and

the procrastination rate over the 7-day period, while the ACT process

indicator remained unchanged.

 \checkmark ACT-based programs may be effective for improving the psychological and behavioral aspects of procrastination, the mechanism of the effect needs to be examined.

This poster is a modified version of one presented by the author in the Japanese Journal of Behavioral and Cognitive Therapies, Vol. 47, No. 1.