

Five facets of mindfulness and their associations with disordered eating behaviors among Japanese college samples :Implications for treatment of eating related problems

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Purpose

Many studies have examined the efficacy of mindfulness-based interventions (MBIs) in the treatment of disordered eating. Katterman et al. (2014) have showed that MBIs reduced emotional eating and external eating, but some studies have indicated that MBIs increased restrained eating (e.g., Dalen et al. (2010)). Kristeller and Hallett (1999) have suggested that MBIs reduced disordered eating by promoting awareness satiety cues (e.g., stomach sensations). However, no study investigated disordered eating and it's associations with mindfulness and awareness of satiety cues. The present study explored two relationships. <u>(R1):</u> <u>Mindfulness is associated with less emotional and external eating and with more restrained eating.</u> <u>(R2): Awareness of satiety cues is related to less disordered eating</u>.

Method

<u>Participants</u>: 243 undergraduate students (96males, 147females) participated in online surveys.
<u>Measures</u>: (Dep) The Dutch Eating Behavior Questionnaire (DEBQ): Assesses disordered eating (emotional, external, restrained) (Ind1) Five Facet of Mindfulness Questionnaire (FFMQ): Awareness, observing, nonjudging, nonreacting, describing (Ind2) Stomach Sensation Awareness (SSA): Measures how aware individuals are of stomach sensations while eating.

(Ind3) Body Mass Index(BMI): Weight(kg) / height(m)²

<u>Analysis</u>: A multiple regression analysis was performed with DEBQ subscales as dependent variables.

Results						
Table1. Results of the multiple regression analysis						
DEBQ Emotional (α =.94)		DEBQ External (α =.85)		DEBQ Restrained (α =.88)		
в	p	в	p	в	p	VIF
.072	.255	071	.275	038	.516	1.062
. 198	.002 **	.122	.068	. 235	< .001 ***	1.124
. 164	.010 *	.016	.808.	. 284	< .001 ***	1.078
141	.036 *	004	.949	. 157	.013 *	1.218
.068	.327	.091	.206	.113	.085	1.309
090	.211	153	.039 *	054	.425	1.387
148	.029 *	080	.252	107	.093	1.232
031	.636	004	.948	.035	.573	1.157
043	.502	.038	.567	. 186	.002 **	1.086
	.14		.08		.24	
	<i>B</i> .072 .198 .164 141 .068 090 148 031 043	DEBQ Emotional (α =.94) β p .072.255.198.002 **.164.010 *141.036 *.068.327090.211148.029 *031.636043.502.14	Table 1. Results of the multiple ofDEBQ Emotional (a =.94)DEBQ Exter β p β .072.255071.198.002 **.122.164.010 *.016141.036 *004.068.327.091090.211153148.029 *080031.636004043.502.038	Table1. Results of the multiple regression analDEBQ Emotional (a =.94)DEBQ External (a =.85) β p β p .072.255 071 .198.002 **.122.164.010 *.016.164.010 *.016.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.068.327.091.070.211153.039 *080.252.031.636004.043.502.038.14.08	Table 1. Results of the multiple regression analysisDEBQ Emotional (a =.94)DEBQ External (a =.85)DEBQ Restration β p β p β .072.255 071 .275 038 .198.002 **.122.068.235.164.010 *.016.808.284141.036 * 004 .949.157.068.327.091.206.113090.211 153 .039 * 054 148.029 * 080 .252 107 031.636 004 .948.035043.502.038.567.186	Table 1. Results of the multiple regression analysisDEBQ Emotional ($a=.94$)DEBQ External ($a=.85$)DEBQ Restrained ($a=.88$) β p β p β p .072.255 071 .275 038 .516.198.002 **.122.068.235< .001 ***

Note) *p<.05, **p<.01, ***p<.001, DEBQ = Dutch Eating Behavior Questionnaire; BMI = Body Mass Index; SSA = Stomach Sensation Awareness

Conclusion

1. Facets of mindfulness were associated with less emotional and external and with more restrained eating. (R1) was confirmed.

2. SSA scores were associated with more restrained eating. (R2) was not confirmed.

 The results indicated that MBIs were effective in reducing emotional and external eating, but may increase restrained eating. In addition, awareness of stomach sensations was related to more restraint eating. These results suggest that <u>MBIs need to</u> <u>incorporate components reduce restrained eating</u> (e.g., Appetite Awareness Training (Craighead et al., 1995))

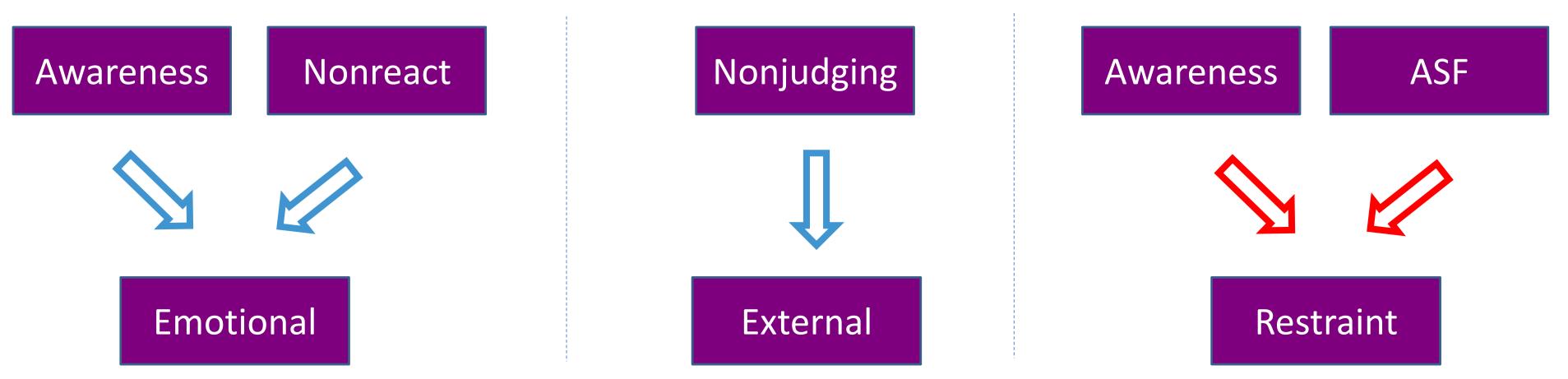


Figure 1. Associations indicated by the multiple regression analysis