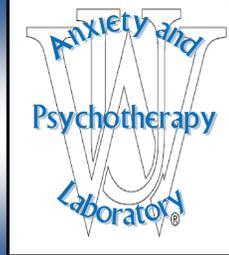




Does social appearance anxiety and maladaptive perfectionism predict restrained eating over time?

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Abstract

Introduction: Social appearance anxiety (SAA) and perfectionism may be common pathways between social anxiety and eating disorders (Hart et al., 2008; Levinson & Rodebaugh, 2012; Stice, 2002)

Method: Participants completed measures of social appearance anxiety, perfectionism, eating restraint, and body mass index (BMI) at two time points, two to three months apart

Results: SAA and maladaptive perfectionism at Time 1 both uniquely predicted restrained eating at Time 2. Restraint at Time 1 significantly predicted BMI at Time 2 over and above BMI at Time 1

Discussion: SAA and maladaptive perfectionism predict restrained eating. Restrained eating predicts BMI; this is the first study to demonstrate that this relationship holds over time

Introduction

- Social appearance anxiety (SAA) is the fear that one will be negatively evaluated because of one's appearance (Hart et al., 2008)
- SAA predicts disordered eating beyond other domains of social anxiety (Levinson & Rodebaugh, 2012)
- Perfectionism is described as a risk factor for both disordered eating (e.g., Tyrka et al., 2002) and social anxiety (Heimberg, 1995)
- In laboratory studies restraint interacts with stress to produce overeating (Greeno & Wing, 1994), thus we expect that restraint may lead to weight gain (i.e. increased BMI over time)
- Individuals high in SAA and perfectionism may seek to reduce social anxiety about their appearance through restrained eating
- Prior research has not determined what individual differences lead to the development of restrained eating
- Tested in current study:
 - Relationship between SAA, maladaptive perfectionism, and eating restraint across two time points
 - Relationship between restrained eating and BMI across two time points

Hypotheses

- Higher SAA and perfectionism will predict higher eating restraint
- Higher eating restraint will predict higher BMI over time

Participants

- Time 1 (N = 97)
- Time 2 (N = 94)
- All women, mostly Caucasian (N = 62, 64%)
- Mean age of 18.77 (SD = 1.08)

Procedures

- Participants came into lab and filled out packet of measures at Time 1 and Time 2, two to three months later
- Research assistants measured participants' height and weight in the lab at Time 1 and Time 2. These data were used to calculate BMI

Measures (continued)

- Social Appearance Anxiety Scale** (SAAS; Hart et al. 2008)
- 16-item measure assessing anxiety about one's appearance in social situations
 - Positively associated with measures of social anxiety
 - Is a unique predictor of social anxiety over and above body image measures
- Frost Multidimensional Perfectionism Scale** (F-MPS; Frost, 1990)
- 35-item measure that provides an overall perfectionism score
 - Maladaptive Evaluative Concerns: composite of several subscales of the F-MPS to assess maladaptive perfectionism
- Dutch Eating Behavior Scale** (DEBQ; Van Strien, Frijters, Bergers, Defares, 1986)
- 32-item measure of eating behavior (restraint subscale used)
- Beck Depression Inventory II** (BDI-2; Beck, Steer, & Brown, 1996)
- 21-item self-report instrument measuring depression
- Social Phobia Scale** (SPS; Mattick & Clarke, 1998)
- 20 item measure that assesses *fear of scrutiny*
 - Discriminates between social phobia and other disorders
- Straightforward Social Interaction Anxiety Scale** (SIAS; Mattick & Clarke, 1998)
- 20-item measure of anxiety-related reactions to social situations
 - Reverse-score items removed to result in a 17-item measure (Rodebaugh et al., 2006)

Regression Analyses

- SAA and MEC predict eating restraint**
- SAA (part $r = .26, p = .018$) and maladaptive perfectionism (part $r = .22, p = .046$) at Time 1 both uniquely predicted restrained eating at Time 2 over and above restrained eating (part $r = .65, p < .001$), depression, fear of scrutiny, and social interaction anxiety at Time 1
- Eating restraint predicts MEC, not SAA**
- Restrained eating at Time 1 was not a significant predictor of SAA at Time 2 ($p = .528$), but restrained eating at Time 1 (part $r = .23, p = .032$) did significantly predict maladaptive perfectionism at Time 2
- Eating restraint predicts BMI**
- Restraint at Time 1 (part $r = .38, p < .001$) significantly predicted BMI at Time 2 over and above BMI at Time 1

Discussion

- SAA and maladaptive perfectionism were significant predictors of restrained eating over time and, in the opposite direction, restrained eating predicted maladaptive perfectionism
 - These results suggest a reciprocal relationship between maladaptive perfectionism and eating restraint
- The finding that restraint predicted BMI over time is consistent with research that has found that restraint leads to overeating (Greeno & Wing, 1994)
- These results represent the first demonstration that the relationship between restraint, maladaptive perfectionism, and BMI holds over time

Results: Time 1

Figure 1. Zero-order correlations between restraint, perfectionism, depression, and social anxiety

	SAAS	Maladaptive Perfectionism	Eating Restraint	Depression	Fear of Scrutiny	S-SIAS	BMI
SAAS	.92						
Maladaptive Perfectionism	.27**	.92					
Eating Restraint	.22*	.30**	.94				
Depression	.36**	.35**	.12	.81			
Fear of Scrutiny	.54**	.34**	.17	.30**	.88		
S-SIAS	.66**	.40**	.11	.34**	.75**	.82	
BMI	.15	.09	.32**	.05	-.07	-.08	

SAAS=Social Appearance Anxiety Scale; S-SIAS=Social Interaction Anxiety Scale; **p < .01, *p < .05; The diagonal is Cronbach's Alpha.