

Psychosocial Outcomes of Weight Stigma among College Students

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Importance and Significance

- ❑ Obesity is epidemic in the United States
- ❑ Obesity is associated with medical and psychosocial consequences
- ❑ As the prevalence of overweight and obesity increases so will the prevalence of weight stigma

Review of Literature

- ❑ Overweight individuals experience bias, discrimination, and victimization across all aspects of life (Puhl & Brownell, 2001).
- ❑ Myers & Rosen (1999) found the more stigmatization experienced by the overweight the more psychological distress.
- ❑ Weight-related teasing is associated with negative psychosocial well-being.

Hypotheses

- H_1 : Weight-related variables are positively related to depressive symptoms.
- H_2 : Weight-related variables are negatively related to body satisfaction.
- H_3 : Measures of self-esteem (trait and state) will mediate the relationship between weight-related variables and depressive symptoms.
- H_4 : Measures of self-esteem (trait and state) will mediate the relationship between weight-related variables and body dissatisfaction.
- H_5 : Measures of weight stigma will show evidence of mediation between weight status and self-esteem.

Design and Sample

- ❑ Non-experimental exploratory correlational study using web-based survey methods.
- ❑ Sample drawn from 15, 156 undergraduate students at USF Tampa campus.
- ❑ Approximately 716 participants were needed for 80% power to detect a medium effect size defined as a change in R^2 of 5%.

Sample Demographics

- Sample size
 - N = 955
- Age
 - M = 19.67
- Gender
 - Females 82%
 - Males 18%
- Race/ethnicity
 - Whites 76%
 - Nonwhites 24%
- Class
 - Juniors 32%
 - Sophomores 30%
- Weight status
 - BMI M = 24.35
 - BMI \geq 25 = 33%
 - Overweight/obese 29%

Note: N= sample, M= mean

Measures

Predictor Variables	Mediators	Moderators	Dependent Variables
Weight Status: •Perceived weight •BMI	Self-esteem: •SES •SSES	Perceived control	PHQ-9
		MSPSS	CDRS
Weight Stigma: •LES •POTS •GBS	Weight Stigma: •LES •POTS •GBS	Self-esteem: •SES •SSES	

Note: Body Mass Index (BMI), Life Experiences Scale (LES), Perception of Teasing Scale (POTS), Gatehouse Bullying Scale (GBS), Rosenberg Self-esteem Scale (SES), State Self-esteem Scale (SSES), Physician Health Questionnaire-9 (PHQ-9), Contour Drawing Rating Scale (CDRS), Multidimensional Scale of Perceived Social Support (MSPSS)

Methods

- ❑ Correlational analysis using Pearson's correlation for hypotheses one and two
- ❑ Meditational analysis using multiple regression according to the Baron and Kenny Method (1986) for hypotheses three through five

H₁: Weight-related variables are positively related to depressive symptoms.

Variables	Depressive Symptoms
Body Mass Index	.20**
Perceived Weight	.21**
Bullying	.28**
Discrimination	.43**
Teasing	.35**

** p < .01

H₂: Weight-related variables are negatively related to body satisfaction.

Variables	Body Dissatisfaction
Body Mass Index	.52**
Perceived Weight	.59**
Bullying	.14**
Discrimination	.14**
Teasing	.42**

**p < .01

H₃: Measures of self-esteem (trait and state) will mediate the relationship between weight-related variables and depressive symptoms.

- State Self-esteem predicting depressive symptoms for perceived weight
 - In the presence of perceived weight low self-esteem is associated with more depressive symptoms. As self-esteem increase depressive symptoms decrease.

H₃: Measures of self-esteem (trait and state) will mediate the relationship between weight-related variables and depressive symptoms.

- State self-esteem predicting depressive symptoms for teasing
 - Self-esteem has a strong effect on depressive symptoms. Self-esteem strongly mediates the relationship between teasing and depressive symptoms. As self-esteem increases the prevalence of depressive symptoms decrease.

H₃: Measures of self-esteem (trait and state) will mediate the relationship between weight-related variables and depressive symptoms.

- Trait self-esteem predicting depressive symptoms for discrimination
 - In the presence of discrimination low self-esteem is associated with more depressive symptoms. As self-esteem increases depressive symptoms decrease.

H₄: Measures of self-esteem (trait and state) will mediate the relationship between weight-related variables and body dissatisfaction.

- State Self-esteem predicting body dissatisfaction for perceived weight
 - In the presence of perceived weight low self-esteem is associated with more body dissatisfaction. As self-esteem increases body dissatisfaction decreases

H₄: Measures of self-esteem (trait and state) will mediate the relationship between weight-related variables and body dissatisfaction.

- State self-esteem predicting body dissatisfaction for teasing
 - The relationship between teasing and body dissatisfaction is fairly strong as well as the indirect effect of self-esteem on body dissatisfaction in the presence of teasing.

H₅: Measures of weight stigma will show evidence of mediation between weight status and self-esteem.

- Teasing predicting state and trait self-esteem for perceived weight
 - In the presence of perceived weight greater teasing is associated with low self-esteem. As teasing increases self-esteem decreases
 - There is a small direct and indirect effect of perceived weight on self-esteem. Although there is a stronger direct relationship between teasing and weight.

Direct Effects

- Teasing
 - Moderate direct relationship with outcomes
- Discrimination
 - Moderate direct relationship with depressive symptoms
- Weight
 - Actual and perceived have a strong direct relationship with body dissatisfaction

Mediation Effects

- Self-esteem strong mediator
 - State self-esteem
- Teasing a significant mediator

Summary

- ❑ College students experience the same amount of weight stigma
- ❑ Psychosocial consequences are real
- ❑ Preserve psychosocial health

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