Self-Compassion, Self-Coldness, and Self-Reported Physical Health: Moderating Effect of Gender

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Abstract

The purpose of the present study was to examine potential gender differences in the relationships between self-compassion, self-coldness, and self-reported physical health among college students. Using a correlational study design, 747 undergraduate students were recruited.

Results indicated that the relationship between self-coldness and selfcompassion was moderated by gender. In addition, both self-compassion and self-coldness were significantly related to self-reported physical health and these relationships did not vary across gender.

Introduction

Self-compassion is characterized as kindness to oneself as well as having a non-judgmental understanding of one's emotions in the face of suffering or hardships (Neff, 2003a). A growing body of evidence suggests that having a compassionate attitude toward oneself enhances emotion regulation and psychological well-being (Barnard & Curry, 2011; Muris & Petrocchi, 2017; Zessin, Dickhäuser & Garbade, 2015), serves as a protective factor in the face of stressful life events (Germer & Neff, 2013; Neff, 2003a), and promotes positive physical health outcomes (Hall, Row, Wuensch & Godley, 2013; Homan & Sirois, 2017).

Neff (2003b), who developed the Self-Compassion Scale (SCS), conceptualized self-compassion as a unitary construct that includes three positive (self-compassion, common humanity, and mindfulness) and three negative factors (self-judgment, isolation, and over-identification). According to Neff's (2003b) conceptualization, the positive and negative factors of the SCS operate as opposite ends on a continuum (the total scale score is obtained by reverse-scoring the negative subscales); however, recent evidence suggests that the positive and negative subscales of the SCS measure two distinct constructs, self-compassion and self-coldness, respectively (Brenner, Heath, Vogel & Credé, 2017; Kumlander, Lahtinen, Turunen & Salmivalli, 2018). Providing further support for this conceptualization, Brenner, Vogel, Lannin, Engel, Seidman and Heath (2018) found that self-compassion was a stronger predictor of well-being, whereas, self-coldness was a stronger predictor of distress among undergraduate students and community adults.

Previous research suggests gender differences in self-compassion (i.e., women report lower self-compassion than men; e.g., Magee & Upenieks, 2019; Neff, 2003b), as well as the relationship between self-compassion and well-being (see Bluth, Campo, Futch & Gaylord, 2017; Zessin et al., 2015). However, most of these findings are based on the overall self-compassion scores obtained from the SCS. Given the recent evidence that the SCS measures two distinct constructs that distinctly relate to well-being, more research is needed to develop an understanding of the role of gender in the relationships between self-compassion, self-coldness and health.

The purpose of the present study, therefore, was to build on recent literature on self-compassion by examining the following research questions:

- 1) Does the relationship between self-coldness and self-compassion vary across gender?
- 2) Are the effects of self-compassion and self-coldness on self-reported physical health moderated by gender?

Method

Participants and Procedures

As part of a larger research project, participants (N = 747; mean age = 20.18, SD = 3.83) were recruited from undergraduate classes of a university in the northeast United States (after obtaining approval from the Institutional Review Board). All participants completed an online survey. The majority of the participants were women (72.3%, *n* = 540) and slightly more than half of the participants identified their ethnicity as White/Caucasian (51.7 %, n = 386). Instruments

After completing an informed consent form and demographic questionnaire, participants completed the remaining instruments of the study. Self-coldness and self-compassion were measured using the Self-Compassion Scale (SCS, Neff, 2003b), a 26-item instrument with the six subscales described earlier. Self-coldness and self-compassion scores were computed by taking the average of the negative and positive subscales, respectively. Self-reported physical health was measured using a single item which asked participants to rate their overall general health on a fivepoint scale (1 = *poor*, 5 = *excellent*).

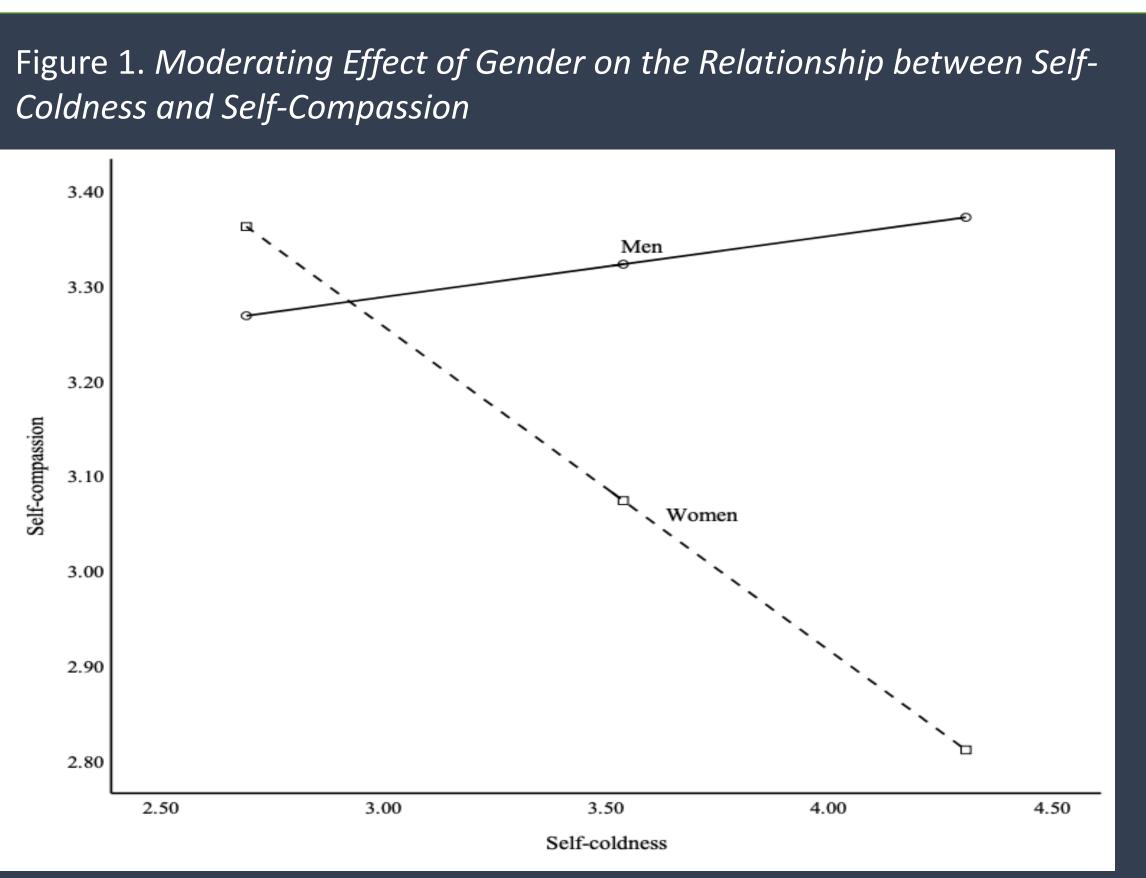


Table 1. Means, Standard Deviations, Cronbach's Alpha's and Bivariate Correlations among Study Variables

Predictors	1	2	3	4	M	SD	Alpha
1. Gender	_	167**	.151**	.082*	-	_	-
2. Self-coldness		_	252**	201**	3.499	.794	.906
3. Self-compassion			-	.204**	3.128	.732	.893
4. Physical health				-	3.350	.942	_
					3.330	.542	

Note. *N* = 747. Gender is coded as: 0 = women, 1 = men * *p* < .05, ** *p* < .001

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Table 2.	Moderating	Effect of	Genuer on l	ine seij-Coi	aness - s

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Predictors	В	SE	t	р	95% CI
Self-coldness	341	.039	-8. 762	< .001	417,264
Gender	-1.183	.242	-4.885	< .001	-1.659,708
Self-coldness X gender	.405	.070	5.806	< .001	.268, .541

Note: N = 747. Gender is coded as: 0 = women, 1 = men. $R^2 = .116$, p < .001. ΔR^2 due to the self-coldness X gender interaction = 040, p < .001

Self-Compassion Relationship

First, we conducted a moderation analysis using PROCESS macro for SPSS (Version 3; Hayes, 2018) to examine our first research question. Self-coldness was used as the predictor variable, self-compassion as the dependent variable and gender as the moderator variable. Results indicated that the gender X selfcoldness interaction explained a significant amount of variance in selfcompassion (ΔR^2 = .040, p < .001). The examination of the conditional effects of self-coldness on self-compassion indicated that self-coldness was significantly and negatively related to self-compassion among women (B = -.34, p < .001), however, self-coldness was unrelated to self-compassion among men (B = .06, p = .268).

Next, we conducted a moderation analysis using PROCESS macro (Version 3; Hayes, 2018) to examine our second research question. Results indicated that self-coldness negatively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, p < .001) and self-compassion positively (B = -.19, P < .001) and P = -.19. .206, *p* < .001) predicted self-reported physical health. After controlling for self-compassion, the interaction between self-coldness and gender did not explain a significant amount of variance in self-reported physical health (ΔR^2 = .000, p = .948). In addition, after controlling for self-coldness, the interaction between self-compassion and gender did not significantly predict perceived physical health (ΔR^2 = .004, p = .082). These findings suggest that the relationships between predictors (i.e., self-coldness and self-compassion) and self-reported physical health did not vary as a function of gender.

Our study has three important conclusions: related among college men, college students, and health do not vary across men and women.

Limitations and Future Directions



Results

Discussion

- 1) self-coldness is significantly and negatively related to self-compassion among college women; however, these two variables are not significantly
- 2) self-coldness is negatively associated with perceived physical health and self-compassion is positively related with perceived physical health among
- 3) the effects of self-coldness and self-compassion on perceived physical
- Although causal inferences can not be made based on our findings due to the correlational nature of our study, our findings suggest that helping college women reduce self-criticisms, isolation, and overidentification (i.e., self-coldness) may increase their self-compassion and contribute positively to their health. On the other hand, self-coldness may not necessarily reduce self-compassion among college men. Our findings also suggest that interventions that target self-coldness and self-compassion may contribute positively to college students' perceived health.
- Given the limitations of the present study (e.g., correlational study design, representativeness of the sample); more research with diverse samples and different research designs (e.g., experimental and longitudinal designs) would help develop a more in-depth understanding of how to integrate these constructs into prevention and intervention programs that focus on improving college students' health outcomes.