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Examination of bi-directional relationships between fear of negative evaluation and weight/shape concerns over three years: A longitudinal cohort study of Australian adolescents

Author Affiliations:

Nora Trompeter* (1) Centre for Emotional Health, School of Psychological Sciences, Macquarie University, Sydney, Australia

(corresponding author) (2) Department of Psychological Medicine, King’s College London

Email: nora.trompeter@kcl.ac.uk

Emma Austen Melbourne School of Psychological Sciences, University of Melbourne, Melbourne, Victoria, Australia

Kay Bussey Centre for Emotional Health, School of Psychological Sciences, Macquarie University, Sydney, Australia
Erin E Reilly  Department of Psychiatry, University of California, San Francisco

Mitchell L Cunningham  School of Psychology, University of Sydney, Sydney, New South Wales, Australia

Jonathan Mond  Centre for Rural Health, University of Tasmania, Launceston, Australia; School of Medicine, Western Sydney University; Sydney Australia.

Alexandra Lonergan  Centre for Emotional Health, School of Psychological Sciences, Macquarie University, Sydney, Australia

Jack Tame  Centre for Emotional Health, School of Psychological Sciences, Macquarie University, Sydney, Australia

Deborah Mitchison  Translational Health Research Institute, School of Medicine, Western Sydney University, Sydney, Australia; Centre for Emotional Health, School of Psychological Sciences, Macquarie University, Sydney, Australia

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Authors’ contributions:

**Nora Trompeter**: Conceptualization, Formal analysis, Investigation, Writing - Original Draft, Project administration; **Emma Austen**: Formal analysis, Writing - Review & Editing;

**Kay Bussey**: Conceptualization, Methodology, Writing - Review & Editing, Supervision;

**Erin E Reilly**: Conceptualization, Writing - Review & Editing; **Mitchell L Cunningham**: Conceptualization, Writing - Review & Editing; **Jonathan Mond**: Methodology, Writing - Review & Editing; **Alexandra Lonergan**: Methodology, Writing - Review & Editing; **Jack Tame**: Project administration, Writing - Review & Editing; **Deborah Mitchison**: Conceptualization, Methodology, Writing - Review & Editing, Supervision, Project administration, Funding acquisition.

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Abstract

Objective: Adolescents commonly experience both fear of negative evaluation and weight/shape concerns. However, evidence concerning the prospective associations between these constructs during adolescence is limited. The current study examined the bi-directional relationships between fear of negative evaluation and weight/shape concerns over a three-year period in adolescents. Method: Australian high school students \((n = 2073; 55\% \text{ girls})\) completed self-report measures at three timepoints, each one year apart. Results: Findings showed a bi-directional relationship, whereby increases in fear of negative evaluation predicted exacerbated weight/shape concerns, and vice versa. Results point towards a vicious maintenance cycle between fear of negative evaluation and weight/shape concerns. Discussion: Findings from the current study highlight the importance of considering both fear of negative evaluation and weight/shape concerns in the development of health promotion and prevention programs designed to reduce the occurrence and adverse effects of body dissatisfaction or improve general mental health.

Keywords: Fear of negative evaluation; Weight and shape concerns; Eating disorders; Social anxiety; Adolescence
Public significance statement:

Many adolescents experience some level of fear of negative evaluation (i.e., worry about being judged by others) and worry about their weight and/or shape. This study examined the prospective relationship between both constructs. Findings showed a bi-directional relationship, whereby higher fear of negative evaluation predicted increased weight/shape concerns, and vice versa. Programs designed to reduce body dissatisfaction might be improved by targeting both fear of negative evaluation and weight/shape concerns.
Examination of bi-directional relationships between fear of negative evaluation and weight/shape concerns over three years: A longitudinal cohort study of Australian adolescents

Both fear of negative evaluation and weight/shape concerns are commonly experienced by adolescents (Aune et al., 2022; Hughes et al., 2019). Apprehension and an expectation of being negatively evaluated by others (i.e., fear of negative evaluation) and undue worry about one’s weight and body shape, as well as the perceived importance of weight/body shape to one’s sense of self-worth (i.e., weight/shape concern) have been associated with high levels of distress (Fehm et al., 2008; Griffiths et al., 2017), and at extreme levels, represent core features of clinical psychological disorders (e.g., eating disorder and social anxiety disorder) (Fairburn et al., 2003; Rapee & Heimberg, 1997). Recent cross-sectional research showed that fear of negative evaluation is associated with weight/shape concerns among both adolescent boys and girls (Trompeter et al., 2018). However, our understanding of the temporal association between these constructs, namely whether fear of negative evaluation precedes weight/shape concerns among adolescents, or vice versa, remains to be examined. Clarifying this temporal association may have implications for health promotion and prevention programs targeting adolescents with weight/shape concerns. The current study sought to address this issue by investigating the longitudinal bi-directional relationships between these constructs among adolescents over a 3-year period.

Previous research among adults generally supports a robust link between fear of negative evaluation and constructs related to weight/shape concerns, such as thin internalisation (Maraldo et al., 2016) and body dissatisfaction (DeBoer et al., 2013). Further evidence suggests that fear of negative evaluation can account for the link between social anxiety and body dissatisfaction and drive for thinness respectively (Menatti et al., 2015).
Indeed, fear of negative evaluation has been proposed as an additional factor explaining body dissatisfaction within a revised version of the dual-pathway model for bulimia nervosa (Utschig et al., 2010). The dual-pathway model for bulimia nervosa proposes that bulimic behaviours occur due to increased dieting and increased negative affect (Stice & van Ryzin, 2019). Importantly, the model posits that internalization of the thin ideal (i.e., adopting the view that ideal bodies should be thin) and societal pressure to be thin lead to both increased dieting and increased negative affect. In their revised model, Utschig et al. (2010) found that the addition of fear of negative evaluation to the model improved the variance in bulimic behaviours accounted for by the model (the revised model accounted for 49% of variance compared to 32% in the original model). In particular, fear of negative evaluation was directly linked with societal pressure to be thin, internalization of the thin ideal, negative affect, and bulimic behaviours in their cross-sectional model. Thus, there is converging empirical and theoretical evidence positioning fear of negative evaluation as a risk factor for weight/shape concerns. However, most of the research to date has been conducted in adult samples. Notably, adolescence is a key developmental period for the development of socio-emotional disorders, which includes both eating disorders and social anxiety disorder (Rapee et al., 2019). As such, understanding the relationship between fear of negative evaluation and weight/shape concerns during this developmental period is key for developing effective health promotion and prevention programs aimed at reducing negative body image among adolescents.

In previous cross-sectional research, we found a significant positive association between fear of negative evaluation and weight/shape concerns among both adolescent boys and girls (Trompeter et al., 2018), suggesting that fear of negative evaluation could be a potential target in health promotion and prevention programs aimed at improving body image. Such programs frequently target related constructs, most notably self-esteem (Yager
et al., 2013), but not fear of negative evaluation itself. In particular, self-esteem refers to the self-evaluation of oneself, whereas fear of negative evaluation is concerned with others’ evaluation of the self (Kocovski & Endler, 2000). Thus, if fear of negative evaluation predicts weight/shape concerns in adolescents, it may be beneficial for universal prevention programs to focus on both evaluation from oneself and others.

Whilst most work to date suggests that fear of negative evaluation precedes weight/shape concerns, few studies have investigated a potential bi-directional link between fear of negative evaluation and weight/shape concerns, with most research positioning fear of negative evaluation as a risk factor for weight/shape concerns, but not vice versa. It is, however, important to also consider that weight/shape concerns may predict fear of negative evaluation. Fear of negative evaluation is thought to stem from cognitive distortions by which individuals overestimate negative evaluations from others (Rapee & Spence, 2004). Such cognitive distortions are similar to those encapsulating weight/shape concerns (e.g., overvaluation of weight/shape). As such, experiencing cognitive distortions relating to weight/shape concerns may make individuals more likely to also develop cognitive distortions regarding other’s evaluation of themselves. Importantly, if weight/shape concerns and fear of negative evaluation are bi-directionally linked, an integrated program that targets both weight/shape concerns and fear of negative evaluation may be beneficial for reducing the occurrence and adverse impact of both constructs and improve the overall mental health of adolescents, rather than solely focusing on the impact of body image. Of the limited longitudinal research examining this potential bi-directional relationship, DeBoer et al. (2013) found that among adult women who had completed a body image intervention program, fear of negative evaluation and body dissatisfaction were reciprocally linked after 6 and 12 months. However, similar research has yet to be conducted among adolescents and no data is available on mixed-gender or male samples.
Our previous cross-sectional research indicates potential gender differences in the relationship between fear of negative evaluation and weight/shape concerns, whereby this relationship was stronger among girls compared to boys (Trompeter et al., 2018). Similarly, a study by Cook-Cottone et al. (2016) found that a mediating effect of social anxiety, when linking peer victimization and eating disorder symptoms in adolescents, was significantly greater for girls compared to boys. One potential explanation for these gender differences may be the link between appearance and self-image in adolescents. Previous research suggests that self-image in adolescent girls is more likely to be determined by appearance compared to adolescent boys (Forsén Mantilla et al., 2014; Golan et al., 2014). Thus, fear of negatively evaluation might be more likely to elicit concerns about appearance among girls compared to boys, given the relative value placed on appearance. However, we currently lack an understanding of how such gender differences manifest longitudinally. This knowledge will be critical in informing body image intervention strategies, as current intervention programs have been found to be less effective among adolescent boys compared to adolescent girls (Chua et al., 2020; Zuair & Sopory, 2022).

To address these critical gaps, the current study investigated the longitudinal bi-directional relationship between fear of negative evaluation and weight/shape concerns among adolescents over a 3-year period. Specifically, it was hypothesized that higher average levels of fear of negative evaluation would predict higher average weight/shape concerns at the subsequent time point. No a-priori hypotheses were made regarding the impact of weight/shape concerns on fear of negative evaluation due to limited existing research. Moreover, the current study examined whether this relationship was consistent for both adolescent boys and girls.

**Methods**
Participants and procedure

This study used longitudinal data from the first (T1), second (T2) and third waves (T3) of the EveryBODY study, a large longitudinal project investigating body image and eating disorders among Australian adolescents. Data were collected in 2017, 2018, and 2019 respectively with approximately 12 months between each data collection point. The project was a school-based survey among high school students, whereby all students in years 7-12 were invited to participate in the yearly survey (see Trompeter et al., 2018 for full study methodology). Schools were representative of the Australian average in terms of socio-economic status (SES). The Index of Community Socio-Educational Advantage (ICSEA) is a standardized ($M = 1000, SD = 100$) measure of educational advantage based on parental occupation and education, geographic location and proportion of Indigenous enrolments that is assigned to each school. ICSEA scores of schools in the overall sample of the EveryBODY study ranged from 909 to 1129 ($M = 1035, SD = 60.91$).

For the current study, we initially planned to include all participants enrolled in years 7-10 at T1 who had completed measures at T1 ($n = 4216$). Of these, 207 participants were excluded due to non-serious responses (i.e., bogus or inappropriate responses to open-ended questions), at one of more waves. This final sample comprised 4009 adolescents. However, due to missing data further participants were excluded (for details of these exclusions, see Missing data). Thus, the final analytic sample ($n = 2073$) included 924 boys (44.6%), 1140 girls (55.0%) and 9 non-binary participants (0.4%). Most participants (89.9%) were born in Australia and 5.1% identified as Aboriginal and/or Torres Strait Islander. Sample characteristics are shown in Table 1.

Table 1. Sample characteristics. Values are presented as mean (standard deviation)
Note. BMI = Body mass index. BMI percentiles were calculated in line with the CDC guidelines to account for age and gender.

### Measures

**Fear of negative evaluation.** Participants’ fear of negative evaluation was measured using the eight positively-worded items from the Brief Fear of Negative Evaluation (BFNE) scale (Leary, 1983). The scale assessed adolescent’s concern about others’ evaluations, distress associated with such negative evaluations, and expectancy of other’s negative evaluations. Participants rated each item (e.g., “I am afraid others will not approve of me”) on a 5-point response scale (1 = Not at all to 5 = Extremely). Responses were summed to produce a total score (range: 8-40), with higher scores indicative of a greater fear of negative evaluation. The scale has shown good internal reliability in adolescents (Geukens et al., 2020) and has been found to have better psychometric properties compared to the full scale (Carleton et al., 2007; Rodebaugh et al., 2004). The scale demonstrated excellent internal consistency in the current study for all time points (T1: Cronbach’s $\alpha = .97$, McDonald's $\omega = .97$; T2: Cronbach’s $\alpha = .97$, McDonald's $\omega = .97$; T3: Cronbach’s $\alpha = .97$, McDonald's $\omega = .97$).

**Weight/Shape Concerns.** Participants’ weight/shape concerns were assessed using 12 items of the combined weight and shape concerns subscale of the Eating Disorder

<table>
<thead>
<tr>
<th></th>
<th>Time 1</th>
<th>Time 2</th>
<th>Time 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age in years</td>
<td>13.8 (1.2)</td>
<td>14.7 (1.5)</td>
<td>15.8 (1.1)</td>
</tr>
<tr>
<td>BMI percentile</td>
<td>51.8 (30.9)</td>
<td>52.8 (30.3)</td>
<td>54.0 (29.9)</td>
</tr>
<tr>
<td>Weight/shape concerns</td>
<td>1.6 (1.8)</td>
<td>1.7 (1.8)</td>
<td>1.9 (1.8)</td>
</tr>
<tr>
<td>Fear of negative evaluation</td>
<td>17.4 (9.5)</td>
<td>18.4 (9.7)</td>
<td>19.2 (9.3)</td>
</tr>
</tbody>
</table>
Examination Questionnaire (EDE-Q; Fairburn et al. 2008). The EDE-Q assesses eating disorder pathology over the past month. Participants rate the frequency/severity of their weight and shape concerns in the past 28 days (e.g., “How dissatisfied have you been with your weight”) on a 7-point response scale (0 = No days/Not at all to 6 = Everyday/Markedly). A mean score of items is calculated with higher scores indicative of greater severity of weight and shape concerns. The subscale has demonstrated good reliability among Australian adolescent boys and girls (Mond et al. 2014). The scale demonstrated excellent internal consistency in the current study for all time points (T1: Cronbach’s α = .96, McDonald's ω = .96; T2: Cronbach’s α = .97, McDonald's ω = .96; T3: Cronbach’s α = .96, McDonald's ω = .96).

**Demographic information**

Participants were asked to self-report demographic information such as gender, age, and weight and height, which were used to determine body mass index (BMI) percentiles in line with the CDC guidelines (Centers for Disease Control and Prevention, 2017).

**Missing data**

There was notable drop-out after T1 due to five schools discontinuing with the project. The final dataset contained 1936 participants with T1 data only (48.3%), 1055 participants with two waves completed (26.3%) and 1018 participants with all three waves completed (25.4%). One-way ANOVAs with Tukey post-hoc tests were conducted to examine potential differences in participants’ demographics at baseline by wave completion. There was a significant difference in age (F(2,3990) = 22.05, p < .001), whereby participants who completed only T1 were significantly younger compared to those who completed T1 and either T2 or T3 (p = .021) or all three waves (p < .001). Participants who had completed T1 and either T2 or T3 were also significantly younger than those who completed all three waves.
(p = .001). Further, there was a significant difference in BMI percentile (F(2,3711) = 7.36, p = .001), whereby participants who completed only T1 had a significantly higher BMI percentile compared to those who completed all three waves (p < .001). Lastly, there was a significant difference in weight/shape concerns (F(2,3926) = 4.29, p = .014), whereby participants who completed all three wave had a significantly lower weight/shape concerns compared to those who completed only T1 (p = .025) or T1 and either T2 or T3 (p = .026). No differences were detected in fear of negative evaluation, F(2,3450) = 0.97, p = .379. However, effect sizes of these differences were weak (η² < 0.01).

Due to high drop-out and differences observed in the participants who completed only one wave, compared to those who completed multiple waves, we decided to only include participants in the data analysis who had completed T1 and at least one of the follow-up waves (T2 or T3; n = 2073). To account for factors linked with drop-out, age and BMI percentile were controlled for in the analyses. In the final dataset issues with missing data were observed, whereby missingness in the weight/shape concerns score at T2 was explained by an outcome variable (weight/shape concerns at T3). Thus, the assumption of missingness at random was violated.

Data analytic plan

The analysis plan was preregistered on the Open Science Framework (https://osf.io/vdf7j/?view_only=30b6e74d66b1412c90cebbbe4c66a954). All deviations from the a priori analytic plan are explicitly mentioned below. Prior to examining the analyses, the potential clustering effect of schools was assessed using mixed model analysis with school as a random factor for each timepoint. The random factor was not significant, and school was not controlled for in any subsequent analyses.
We had initially planned to run a Random Intercept Cross-Lagged Panel Model (RI-CLPM), which distinguishes stable between-subject effects from temporal within-subject effects (Hamaker et al., 2015). Further detail on the planned RI-CLPM model is available in the pre-registration. However, model fit indices of the planned RI-CLPM model showed that the data were poor fit (CFI = .51; TLI = .54; RMSEA = .22). Post-hoc power analysis using a Monte Carlo simulation (Masselink et al., 2018) showed that we had insufficient power (<.80%) to detect cross-lagged effects from weight/shape concerns to fear of negative evaluation. As such, a traditional cross-lagged panel model was run instead (see Figure 1), because, relative to RI-CLPMs, these models contain fewer parameters and thus require smaller samples sizes to achieve adequate statistical power.

Figure 1. Proposed cross-lagged panel model.

Cross-lagged panel models consists of both autoregressive paths (paths over time between the same constructs), and cross-lagged paths (paths over time between two different constructs). Thus, the autoregressive paths are examined for stability of a construct, whereas the cross-lagged paths are used to examine the prospective association between two constructs controlling for stability in both constructs. As such, this model tests change in individual differences of a construct (Orth et al., 2021).

Note. FNE = fear of negative evaluation; W/S = weight/shape concerns.
In line with our pre-registered analysis, the strength of both the cross-lagged and auto-regressive pathways were constrained to be equal across all timepoints, given that there is no theoretical rationale to expect that associations would differ in strength over time, and the intervals between timepoints were designed to be approximately equal. Analyses were conducted in Mplus (Muthén & Muthén, 2018) using full information maximum likelihood to handle missing data and potential non-normal distribution of the data. All variables were centred using their grand mean. Standardized regression coefficients and 95% confidence intervals are reported.

Model fit was examined using the Comparative Fit Index (CFI), Tucker Lewis Index (TLI), and Root Mean Square Error of Approximation (RMSEA). In line with Vandeberg and Lance (2000), CFI and TLI were examined at .90 and RMSEA at less than .08.

Finally, multi-group analyses were used to determine whether the estimated model differed between boys and girls. Due to the small number of non-binary participants, these were excluded from the multi-group analysis. To examine gender differences, all associations were constrained between groups, and the overall difference between boys and girls in model fit was tested using a Wald-test. Post-hoc power analysis using G*Power (Faul et al., 2007) to estimate the statistical power of the Wald test indicated sufficient power (>80%) to detect differences between the two groups.

Results

Correlations

Table 2 shows correlations between the study variables. Both constructs were strongly correlated over time and showed strong stability across waves.

Table 2. Spearman correlations of all variables
<table>
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<th>1</th>
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<th>6</th>
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<tbody>
<tr>
<td>1. Fear of negative evaluation T1</td>
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<td>2. Fear of negative evaluation T2</td>
<td>.57*</td>
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<td>3. Fear of negative evaluation T3</td>
<td>.50*</td>
<td>.63*</td>
<td>-</td>
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<td></td>
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<tr>
<td>4. Weight/shape concerns T1</td>
<td>.65*</td>
<td>.48*</td>
<td>.42*</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Weight/shape concerns T2</td>
<td>.52*</td>
<td>.67*</td>
<td>.51*</td>
<td>.69*</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>6. Weight/shape concerns T3</td>
<td>.46*</td>
<td>.53*</td>
<td>.62*</td>
<td>.75*</td>
<td>.62*</td>
<td>-</td>
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</table>

*Note. *p < .001

**Cross-lagged panel model**

The proposed model (Figure 1) demonstrated good fit (CFI = .96, TLI = .93, RMSEA = .04). Fear of negative evaluation predicted increased weight/shape concerns over time (T1 to T2: B = .06 [.02, .10], p = .002; T2 to T3: B = .06 [.02, .10], p = .002). This effect was reciprocal, with weight/shape concerns also predicting increased fear of negative evaluation (T1 to T2: B = .14 [.10, .19], p < .001; T2 to T3: B = .15 [.10, .19], p < .001).

Figure 2. *Cross-lagged panel model entire sample. Standardized regression coefficients are reported.*
Note. All paths are significant at \( p < .001 \). FNE = fear of negative evaluation; W/S = weight/shape concerns. Analyses adjusted for age and BMI percentile at T1.

Lastly, gender differences in the above associations were tested using a multi-group analysis. Findings showed that the above associations did not significantly between boys and girls (\( \chi^2(11) = 18.73, p = .066 \)). Results can therefore be interpreted for boys and girls combined.

**Discussion**

The current study examined the bidirectional relationship between fear of negative evaluation and weight/shape concerns during adolescence. Findings provided evidence for a bidirectional relationship, with fear of negative evaluation predicting increases in weight/shape concerns one year later, and weight/shape concerns predicting increases in fear of negative evaluation after one year. Notably, these associations did not differ between girls and boys.

These findings extend previous cross-sectional research on fear of negative evaluation (Anderson et al., 2020; MacKey & la Greca, 2008; Trompeter et al., 2018) to suggest that fear of negative evaluation may predict subsequent weight/shape concerns in adolescents. While the
mechanisms through which this longitudinal relationship may operate cannot be ascertained in the current study, fear of negative evaluation has been shown to make individuals more attentive to potential social threats (Rossignol et al., 2013). Concerns about social threats may result in individuals with high levels of fear of negative evaluation more likely to seek to conform to demanding sociocultural appearance standards such as the thin and muscular ideals. This may in turn elicit weight/shape concerns, particularly when discrepancies between these ideals and one’s current body shape or size is perceived. These possibilities should be directly explored in future research.

Of note, weight/shape concerns also predicted increased fear of negative evaluation among adolescents. Few studies to date have examined how weight/shape concerns may impact subsequent fear of negative evaluation. Since fear of negative evaluation is a core component of social anxiety disorder, and since there is good evidence that anxiety disorders often precede eating disorders, research has tended to focus on the path from fear of negative evaluation to weight/shape concerns (Swinbourne & Touyz, 2007). However, the current findings are consistent with the possibility that both fear of negative evaluation and weight/shape concerns maintain each other, thus fear of negative evaluation may be exacerbated by co-occurring weight/shape concerns. While few studies to date have examined the bi-directional link between fear of negative evaluation and weight/shape concerns, related research has indicated that eating disorders may also predict later anxiety disorders in adulthood (Buckner et al., 2010; Micali et al., 2015). This may be attributable to the social avoidance commonly associated with heightened weight/shape concerns (Mills et al., 2014), which is a key maintenance factor of social anxiety (Miers et al., 2014). Notably, bigger effect sizes were observed when looking at weight/shape concerns predicting fear of negative evaluation than vice versa. These findings suggest that more attention should be paid
to the bi-directional relationship of these constructs, rather than positioning fear of negative evaluation solely as a predictor of weight/shape concerns.

Future research should clarify whether both fear of negative evaluation and weight/shape concerns are truly both predictors of one another, such that weight/shape concerns can occur independently and give rise to fear of negative evaluation, or whether they are only reciprocal once fear of negative evaluation is already present. Future studies may want to examine these associations in children prior to adolescence to capture these constructs closer to their onset and to disentangle the relationships further.

The current study has important implications for health promotion and prevention programs seeking to reduce the occurrence and adverse effects of body dissatisfaction and eating-disordered behavior. Notably, as fear of negative evaluation and weight/shape concerns typically increase as children enter adolescence (Bucchianeri et al., 2013; Westenberg et al., 2007), programs aimed at reducing body image concerns among adolescents could target these factors. Current prevention programs for body image concerns frequently target self-esteem (Yager et al., 2013), but could be extended to target fear of negative evaluation to increase effectiveness. To the authors knowledge, fear of negative evaluation has not, thus far, been targeted in prevention programs for body image concerns or eating disorders. Health promotion programs for body dissatisfaction and eating-disordered behavior have been somewhat neglected in the eating disorders field thus far, but arguably are an important component of overall efforts to reduce the occurrence and adverse effects of body dissatisfaction and eating-disordered behavior (see Bullivant et al., 2020). Further, the findings regarding the bi-directional association between fear of negative evaluation and weight/shape concerns suggest that integrated prevention programs that targets both fear of negative evaluation and weight/shape concerns may be beneficial in reducing the occurrence...
and adverse impact of both constructs and consequently improve the overall mental health of adolescents.

While the current study had several strengths, including the three-year longitudinal design and representative community sample, several limitations should be acknowledged. Firstly, while we had planned to conduct a RI-CLPM, which separates the within-person and between-person variance, this was not possible due to insufficient statistical power. While the current study suggests that adolescents with high fear of negative evaluation (compared to others) are at risk for increased weight/shape concerns (and vice versa; a between-person relationship), it is unclear whether adolescents who experience higher levels of fear of negative evaluation than they themselves would usually experience are at similar risk of increased weight/shape concerns (i.e., a within-person relationship). Future research should aim to examine this line of research using a RI-CLPM in a larger sample. Secondly, the current study could not determine causality. Future research would benefit from further experimental or intervention research to determine whether decreases in fear of negative evaluation reduce weight/shape concerns and vice versa. Lastly, issues with missing data were observed in the current study. Most notably, the assumption of missingness at random was violated. To deal with issues related to drop-out we decided to only include participants who completed at least one follow-up assessment (T2 or T3) and adjusted for factors associated with dropout (i.e., age and BMI percentile) in the analysis. However, replication of the findings is needed in light of these issues.

In conclusion, the current study suggests a bi-directional relationship between fear of negative evaluation and weight/shape concerns in adolescence. Findings have implications for the development of health promotion and prevention programs seeking to reduce the occurrence and adverse impacts of body dissatisfaction in young people. Future research
should examine whether targeting fear of negative evaluation in adolescents is effective in reducing weight/shape concerns and vice versa.
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