Bullying victimization and perpetration in a community sample of youth with psychotic like experiences

Gregory P. Strauss a,*, Ian M. Raugh a, Vijay A. Mittal b, Brandon E. Gibb c, Meredith E. Coles c

a Department of Psychology, University of Georgia, Athens, GA, USA
b Department of Psychology, Northwestern University, Evanston, IL, USA
c Department of Psychology, Binghamton University, Binghamton, NY, USA

Abstract

Prior studies indicate an association between psychotic-like experiences (PLEs) and bullying victimization; however, the most frequent types of bullying victimization and the association with bullying perpetration are unclear. A community sample of 1563 adolescents completed questionnaires examining PLEs and frequency of bullying victimization and perpetration. Compared to adolescents scoring below the psychosis-risk cut-off (n = 1294), those with PLEs (who are putatively at-risk) (n = 269) were more likely to report being the victims of overt, relational, and reputational bullying and to have perpetrated bullying against others. Increased bullying perpetration among youth with PLEs may reflect reactive aggression in response to being bullied.

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Letter to the Editor:

Prior studies indicate that peer victimization (i.e., being bullied) may be a risk factor for developing a psychotic disorder in youth with attenuated psychotic symptoms (Kelleher et al., 2008; Masillo et al., 2017; Valmaggia et al., 2015). However, it is unclear which types of peer victimization (e.g., overt, relational) are most frequently experienced by youth with psychotic-like experiences (PLEs). It has also yet to be determined whether youth with PLEs are more likely to be perpetrators of bullying, despite evidence that adolescents who experience peer victimization are at increased likelihood of committing reactive aggression (i.e., a hostile act displayed in response to a provocation or perceived threat, rather than an unprovoked act aimed at influencing, intimidating, or dominating others) (Poulin and Boivin, 2000).

The current study examined peer victimization and peer aggression (i.e., perpetration) in relation to PLEs. Participants included 1563 middle and high school students in the northeastern United States. The study utilized passive consent from parents and active consent from youth. Specifically, parents of all students were sent a letter detailing the study. Those who did not wish their child to participate were asked to sign the form and return it to the school. Following this, students were asked to give their assent to participate in the study by signing an active assent form. Participation was limited to those students whose parents had provided passive consent and who themselves provided active assent.

A series of questionnaires was administered online via SurveyMonkey. Participants completed the surveys in small groups within their school computer laboratories. The entire survey duration was ~1 h. Questionnaires included: 1) the Revised Peer Experiences Questionnaire (RPEQ: Prinstein et al., 2001), and 2) the Youth Psychosis At-Risk Questionnaire-Brief (YPARQ-B) (Ord et al., 2004). The R-P EQ is a self-report questionnaire asking how frequently the youth is the perpetrator or victim of different forms of bullying (from 1 = never to 5 = a few times a week) across 4 domains of perpetration and victimization: overt, relational, reputational, and prosocial behavior (recipient vs. provider) (α = 0.94). The YPARQ-B contains 28 items measuring psychotic experiences. Responses are scored as yes (present) or no/uncertain (absent) (α = 0.96). Using an established psychosis risk cut-score of ≥ 13 (Kline et al., 2012), n = 269 (17.2%) youth with PLEs who are presumably at-risk for psychosis and n = 1294 (82.7%) comparison control (CON) subjects were identified. The PLE and CON did not differ in age or sex, but PLEs had a lower proportion of Caucasian participants. The proportion of PLE cases did not differ as a function of grade (see Table 1).

Group means and standard deviations, as well as Repeated Measures ANOVA and post hoc test results are presented in Table 1. PLEs were more likely to report being the victims and perpetrators of bullying than CON; these findings were true for both the overt and relational domains. PLEs were also less likely to report being the recipient of prosocial behaviors from others, but did not differ from CON in how...
likely they were to engage in prosocial behaviors toward others. Group differences are therefore not likely attributable to simple over-reporting by the PLE youth. Adding race as a covariate did not change the pattern of results. Consistent with past studies (Catone et al., 2015; Kelleher et al., 2008; Masillo et al., 2017; van Dam et al., 2012; Valmaggia et al., 2015), youth with PLEs are at increased risk for bullying victimization. Our results extend prior findings by suggesting that increased victimization encompasses overt and relational domains. We also extended the literature by finding that PLE youth are at increased likelihood for being the perpetrators of both overt and relational bullying and less likely to receive prosocial behaviors from others. The greater frequency of bullying perpetration may represent reactive aggression in response to being bullied. A significantly stronger association between bullying victimization and perpetration in the PLE (r = 0.62) than CON group (r = 0.52) (Z = 2.39, p = 0.02) may support this possibility, although causality cannot be inferred.

Bullying may be a risk factor for several mental health problems during adolescence, including psychosis. The nature of the bullying-PLE association is unclear. Bullying may be a stressor that increases risk for psychosis, similar to other environmental factors. Alternatively, the social and problem-solving skill abnormalities that emerge during the premorbid/prodromal phases may make youth vulnerable to bullying. Longitudinal research is needed to examine these possibilities. Regardless of which of these explanations is correct, bullying prevention programs are likely to be beneficial to youth with PLEs. School-based bullying programs have typically focused on preventing perpetration (Arseneault, 2017); however, the current results suggest that programs should also target bullying victimization. The confluence of both approaches may be critical for reducing the long-lasting effects of bullying, which can persist past the adolescent period.

Role of funding source
There was no funding for this study.

Conflict of interest
None.

Contributors
GPS, BEG, and MEC designed the study. GPS performed statistical analyses. GPS and IR wrote the initial draft of the manuscript. All authors contributed to drafts/writing of the manuscript.

Acknowledgments
Thank you to the participants who dedicated their time to this research, as well as superintendent Sue McLeod and the principals, teachers, and staff at the schools that were involved with the study. Thank you to Katherine Visser and Liam Cashin for assistance with data collection and processing.
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