Risk and Protective Factors for Adjustment Problems among High-Poverty Adolescent Girls in India

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Abstract

Though adolescent girls in developing countries are highly at-risk for poor psychological adjustment, there is a dearth of evidence on risk and protective factors for mental health problems in such populations. This study addresses the relationship between peer-related risk/protective factors (peer problems and prosocial behaviors), thinking styles (pessimism and optimism), and emotional and behavioral difficulties among a high-poverty sample of adolescent girls in India. Participants were 879 girls (ages 10-19) in urban slums of Surat, India.

Findings suggest that, among girls in high-poverty, developing country settings, peer difficulties and pessimism correlate with and predict greater adjustment difficulties.

Interventions that target these risk factors may be beneficial for this population.

Methods

Participants: 879 high-poverty girls (ages 10-19) in urban slums of Surat, India. Participants were involved in a controlled trial of a resilience-building intervention conducted by CorStone. Baseline analyses included data from all participants while longitudinal analyses included data from the control group (n = 452) in order to examine the effects of risk factors independent from the intervention.

Measures: Peer problems, prosocial behavior, pessimism, optimism, emotional difficulties, and conduct problems were measured at two time points (3 months apart) using validated translations of the Youth Life Orientation Test (YLOT; Ey et al., 2005) and the Strengths and Difficulties Questionnaire (SDQ; Goodman, Meltzer & Bailey, 1998).

Analysis: We examined correlations between variables at T1. Then, we conducted regression analyses to examine whether peer risk factors and thinking styles at T1 predicted emotional and behavioral difficulties at T2. First, we conducted separate regression analyses to examine whether each risk/protective factor predicted emotional or behavioral difficulties. Second, we conducted one regression analysis predicting emotional difficulties and one regression analysis predicting behavioral difficulties including all of the significant risk/protective factors as predictors. This second set of analyses allowed us to identify the strongest predictors of adjustment.

Hypotheses:

• Peer problems would predict higher levels of emotional and behavioral difficulties while prosocial behavior would predict lower levels of these difficulties.
• Pessimism would predict higher levels of emotional and behavioral difficulties while optimism would predict lower levels of these difficulties.

Results

Correlational Analysis

Table 1 presents correlations between measures at T1.

Table 1. Correlations between measures at T1 (n = range from 725-879).

<table>
<thead>
<tr>
<th></th>
<th>1. YLOT Optimism</th>
<th>2. YLOT Pessimism</th>
<th>3. SDQ peer problems</th>
<th>4. SDQ prosocial behavior</th>
<th>5. SDQ emotional difficulties</th>
<th>6. SDQ conduct problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YLOT Optimism</td>
<td>-0.09**</td>
<td></td>
<td></td>
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<tr>
<td>2. YLOT Pessimism</td>
<td></td>
<td>-0.19**</td>
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<tr>
<td>3. SDQ peer problems</td>
<td></td>
<td></td>
<td>0.14**</td>
<td>0.21**</td>
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<tr>
<td>4. SDQ prosocial behavior</td>
<td></td>
<td></td>
<td></td>
<td>0.17**</td>
<td>-0.14**</td>
<td>-0.30**</td>
</tr>
<tr>
<td>5. SDQ emotional difficulties</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.10**</td>
<td>0.18**</td>
</tr>
<tr>
<td>6. SDQ conduct problems</td>
<td></td>
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<td>0.11**</td>
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</tbody>
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Note: *p < .05, **p < .01, ***p < .001

Figure 1. Participants giggles outside their school in Surat, India. Participants attended four high schools that drew from 20% slum areas.

Figure 2. Pessimism and peer problems predict emotional difficulties over time. Note: Normal/Borderline/Abnormal peer problems follow UK scores (Meltzer, Goodman & Ford, 2000). Very low/high pessimism is defined as ≤ 2 standard deviations from the mean.

Discussion

• Risk/protective factors generally functioned as expected for emotional adjustment problems in this high-poverty youth population in India.
• Peer problems and optimism/pessimism correlated with and predicted emotional adjustment problems in this highly disadvantaged adolescent girl population in the expected directions. This finding is critical, particularly as researchers have questioned whether western definitions of risk/protective factors are useful in non-western settings (e.g., Lightsey Jr. & Christopher, 1997). Our findings suggest that peer related risk factors and thinking styles are highly relevant to emotional well-being among high-poverty, marginalized young people in developing countries.

• Additional research is necessary concerning behavior problems in this and similar populations.

Interventions that reduce pessimism and peer problems have potential to reduce the burden of mental ill-health among young women internationally.

• This study has important implications for the development of effective interventions to reduce the burden of emotional adjustment in this and similar populations.

• In particular, as peer-related difficulties and optimism/pessimism consistently emerged as significant correlates and predictors of poor emotional adjustment, interventions to improve peer relationships and decrease pessimism could be impactful. Such interventions could include social-emotional learning and/or peer support programs.

• Curricula could potentially target peer relationships through peer support groups and skill-building in social skills, conflict resolution and assertive communication. Pessimism could be targeted through skill-building in questioning pessimistic thinking, and goal-setting and planning.


References

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