Parental Toxic Stress and Childhood Psychosocial Functioning

Alexandra Gonzalez, MD; Samhita Bhargava, MD; Janine Adjo, MD; David Rubin, MD
St. Barnabas Hospital, Bronx, NY, Albert Einstein College of Medicine, Bronx NY, and CUNY School of Medicine, New York, NY

BACKGROUND

- Prolonged activation of physiologic stress response occurs when children are exposed to physical, emotional or verbal abuse, neglect, and/or household dysfunction. These events are known as adverse childhood experiences (ACEs).
- Toxic stress can lead to permanent changes in brain’s architecture during infancy and early childhood; can lead to chronic physical and mental health conditions.
- Adults with ACEs may demonstrate limited parenting skills and maladaptive responses to their children which affects children’s emotional and behavioral health.
- Pediatrics Symptoms Checklist (PSC) is a screening tool which aids in the detection of psychosocial dysfunction in children. It screens for internalizing, externalizing, and attention-related behavior symptoms.
- A positive PSC triggers a diagnostic evaluation for mental health conditions.

OBJECTIVE

To determine if there is a correlation between parental ACE scores and the likelihood of a positive PSC-17 screen in their children.

METHODS

Cross-sectional convenience sample study in three university-affiliated community health clinics in the Bronx. Caregivers of children ages 4-16 at well visits completed an ACEs screen about themselves and a PSC-17 for their child.

RESULTS

Table 1. PSC-17 scores (n=71)

<table>
<thead>
<tr>
<th></th>
<th>Positive screen (%)</th>
<th>Negative screen (%)</th>
<th>P Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total ACEs</td>
<td>5.6</td>
<td>94.4</td>
<td>0.021</td>
</tr>
<tr>
<td>Internalizing symptoms</td>
<td>5.6</td>
<td>94.3</td>
<td>0.002</td>
</tr>
<tr>
<td>Externalizing symptoms</td>
<td>2.8</td>
<td>97.2</td>
<td>0.010</td>
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<tr>
<td>Attention Symptoms</td>
<td>11.3</td>
<td>88.7</td>
<td>NS</td>
</tr>
</tbody>
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Figure 1. Sample ACES questionnaire

Figure 2. Sample PSC-17 questionnaire

RESULTS

- 71 caregivers of children ages 4-16 years participated in the study.
- Significant relationship between caregivers with higher ACE scores and an overall positive PSC-17 and positive internalizing and externalizing subsets in their children.
- No significant correlation between parental ACEs and a positive attention subset.

CONCLUSION/LIMITATIONS

- ACEs in primary caregivers correlate with a positive screen for behavior problems in their children. Based on these findings, primary care practitioners should consider using PSC-17 as an initial screening tool at well child visits in communities where ACEs are prevalent to detect pediatric mental health disorders and initiate treatment.
- Limitations to this study: single-center study with convenience sample.

REFERENCES