Self reported symptoms in children predicted schizophreniform disorder as adults


QUESTION: Can self reported symptoms of schizophrenia at 11 years of age predict the risk for schizophreniform disorder at 26 years of age?

Main results

The prevalence of schizophreniform disorder at 26 years of age was 3.3%. Schizophreniform diagnoses were made in 2% of the control children compared with 9.5% of the weak symptom children (odds ratio [OR] 5.1, 95% CI 1.7 to 18.3) and 25% of the strong symptom children (OR 16.4, CI 3.9 to 67.8). Symptoms at 11 years of age did not predict a higher risk of mania or depression occurring in patients with personality disorders and may capture a general liability to psychosis.

The implication of this study is that psychotic like symptoms in adolescents should be taken seriously and not prematurely dismissed as a normal age related phenomenon. Asking these 5 questions should probably be part of any systematic mental status examination with adolescents, even with those who do not display overt psychotic symptoms. Moreover, individuals who endorse these symptoms probably warrant continued follow up to monitor the development of severe psychopathology. Finally, these psychotic like symptoms will probably be used to select high risk samples in future clinical trials of interventions aimed at preventing the onset of psychosis.

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Aetiology

Percentage of children with no, weak, or strong psychotic symptoms at 11 years of age diagnosed with schizophreniform disorder at 26 years of age

<table>
<thead>
<tr>
<th>Schizophrenia symptoms at age 26 years</th>
<th>No symptoms (n=654)</th>
<th>Weak symptoms (n=95)</th>
<th>Strong symptoms (n=12)</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delusions</td>
<td>18.7%</td>
<td>27.4%</td>
<td>41.7%</td>
<td>0.007</td>
</tr>
<tr>
<td>Hallucinations</td>
<td>11.3%</td>
<td>22.1%</td>
<td>41.7%</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Disorganised speech</td>
<td>16.6%</td>
<td>23.7%</td>
<td>41.7%</td>
<td>0.009</td>
</tr>
<tr>
<td>Catatonic behaviour</td>
<td>6.9%</td>
<td>10.6%</td>
<td>33.3%</td>
<td>0.003</td>
</tr>
<tr>
<td>Negative symptoms</td>
<td>0.9%</td>
<td>2.1%</td>
<td>8.3%</td>
<td>0.03</td>
</tr>
</tbody>
</table>

COMMENTARY

Prospective community studies seeking childhood and adolescent predictors of adult psychoses have typically yielded very modest predictive power. This has slowed the development of clinical interventions aimed at preventing psychosis because the target population of such interventions is so difficult to identify. The study by Poulton et al provides provocative results by suggesting that simply asking adolescents 5 questions may prospectively identify those who will develop psychosis.

This is, overall, a methodologically sound study. The results appear credible, especially given the “dose response” relation shown (ie, the more adolescent psychotic symptoms, the higher the risk of adult schizophreniform disorder), the relative diagnostic specificity of the association, and the longitudinal prospective design.

An important issue, however, is the breadth of the diagnoses encompassed by the category of schizophreniform disorder. The authors reported a prevalence of 3.3%, which is very high compared with the best prevalence estimates for schizophrenia and related psychoses, typically below 1.0%. Despite the precautions taken to increase diagnostic accuracy, an issue well discussed by the authors, these adults with schizophreniform disorder probably included those who had various problems that extended beyond schizophrenia and even other schizophrenia spectrum psychoses. Hence, this adult schizophreniform group may include, for example, brief psychoses occurring in patients with personality disorders and may capture a general liability to psychosis.

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