Youth meeting symptom and impairment criteria for mania-like episodes lasting less than four days: an epidemiological enquiry

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Background: Little is known about short-duration episodes of mania-like symptoms in youth. Here we determine the prevalence, morbid associations, and contribution to social impairment of a phenotype characterised by episodes during which symptom and impairment criteria for mania are met, but DSM-IV duration criteria are not (bipolar not otherwise specified; BP-NOS). Methods: A cross-sectional national survey of a sample (N = 5,326) of 8–19-year-olds from the general population using information from parents and youth. Outcome measures were prevalence rates and morbid associations assessed by the Developmental and Well-Being Assessment, and social impairment assessed by the impact scale of the Strengths and Difficulties Questionnaire. Results: While only seven individuals (1%) met definite or probable DSM-IV criteria for BPI or BPII, the prevalence of BP-NOS was 10-fold higher, 1.1% by parent report and 1.5% by youth report. Parent–youth agreement was very low: κ = .02, p > .05 for BP-NOS. Prevalence and episode duration for BP-NOS did not vary by age. BP-NOS showed strong associations with externalising disorders. After adjusting for a dimensional measure of general psychopathology, self-reported (but not parent-reported) BP-NOS remained associated with overall social impairment. Conclusions: BP meeting full DSM-IV criteria is rare in youth. BP-NOS, defined by episodes shorter than those required by DSM-IV, but during which DSM-IV symptom and impairment criteria are met, is commoner and may be associated with social impairment that is beyond what can be accounted for by other psychopathology. These findings support the importance of research into these short episodes during which manic symptoms are met in youth but they also call into question the extent to which BP-NOS in youth is a variant of DSM-IV BP – superficially similar symptoms may not necessarily imply deeper similarities in aetiology or treatment response. Keywords: Bipolar disorder, manic episodes, attention deficit hyperactivity disorder, oppositional defiant disorder, conduct disorder.

The rate of diagnosis of bipolar disorder (BP) in children and adolescents has increased dramatically over the past decade (Blader & Carlson, 2007; Moreno et al., 2007), becoming a matter of intense debate, especially in the United States (Carlson & Meyer, 2006; Leibenluft, Charney, Towbin, Bhangoo, & Pine, 2003). Traditionally, BP has been thought to be exceedingly rare in children (Goodwin & Jamison, 2007). Consistent with this view, the only recent, reasonably-sized US epidemiological study to examine BP prevalence in youth found no cases of mania and a .1% prevalence of hypomania in children up to age 13 (Costello et al., 1996). However, the question has been raised as to whether the duration criteria required by DSM-IV definitions of mania or hypomania (i.e., episodes of at least seven and four days’ duration, respectively) (APA, 2000) are developmentally inappropriate for children, and whether BP in youth should therefore be diagnosed on the basis of episodes of shorter duration, or by redefining the relationship between episodes and cycles (Geller, Tillman, & Bolhofner, 2007). In support of less restrictive duration criteria, a prospective clinic study found that approximately 25% of youth with episodes too short to meet DSM-IV criteria for mania or hypomania developed BPI within two years (Birmaher et al., 2006). Epidemiological studies in adults also suggest that hypomanic episodes lasting 1–3 days may be on a continuum with classical BP (Angst et al., 2003).

This paper is an epidemiological investigation in youth of episodes of manic symptoms that meet DSM-IV symptom and impairment criteria but persist for less than four days. Leaning on previous empirical work (Axelson et al., 2006), common DSM-IV practice, and guidelines of the American Academy of Child and Adolescent Psychiatry (AACAP; McClellan, Kowatch, & Findling, 2007), we designated such short episodes as bipolar not otherwise specified (BP-NOS). Given that irritability is a widespread and less-specific symptom in youth, we required that elation, rather than elation or irritability, be present in order for an episode to meet DSM-IV’s ‘criterion A’ for manic episodes. Since elated mood is present in the great majority of youth with BP (92% for BPI and 82% for BP-NOS (Axelson et al., 2006)), it seems

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unlikely that many true cases of BP will be lost by stipulating elation, but not irritability, as the A criterion.

We tested three hypotheses. Firstly, that the prevalence of BP-NOS would be markedly higher than that of BPI or BPII in youth. This is based on studies in adults, where relaxing the duration criterion leads to a substantial increase in the prevalence of hypomania (Angst et al., 2003). This would also be in agreement with findings from a community sample of adolescents (Lewinsohn, Klein, & Seeley, 1995), where relaxed duration and symptom-count criteria led to higher prevalence rates.

Secondly, we sought to determine the associations of BP-NOS with other disorders in youth. Previous clinic studies (Axelson et al., 2006) have found high rates of comorbidity between BP-NOS and externalising disorders of childhood, such as attention deficit hyperactivity disorder (ADHD) and oppositional defiant disorder. We expected to confirm this pattern in our community-based study.

Thirdly, we wanted to establish whether BP-NOS contributed to overall social impairment in youth, beyond that explained by comorbid psychopathology and substance use. The validity of the BP-NOS category would be supported by an association with overall impairment, independent of other childhood psychopathology or substance use.

**Method**

**Population**

The 2004 British Child and Adolescent Mental Health Survey (B-CAMHS04) was carried out in 2004 on a representative group of 5–16-year-olds (N = 7,977). The design of the B-CAMHS04 survey has been described in detail (Green, McGinnity, Meltzer, Ford, & Goodman, 2005). 'Child benefit' is a universal state benefit payable in Great Britain for each child in the family. The child benefit register was used to develop a sampling frame of postal sectors from England, Wales, and Scotland that, after excluding families with no recorded postal code, was estimated to represent 90% of all British children. Of the 12,294 recruited, 1,085 opted out and 713 were ineligible or had moved without trace, leaving 10,496 who were approached. Of those, 7,977 participated (65% of those selected; 76% of those approached). Three years after the original survey (i.e., in 2007), families were approached again unless they had previously opted out or the child was known to have died. Of the original 7,977 children, 5,326 (67%) participated in the detailed follow-up (Parry-Langdon, 2008).

**Measures**

The Strengths and Difficulties Questionnaire (SDQ) is a 25-item questionnaire with robust psychometric properties (Bourdon, Goodman, Rae, Simpson, & Koretz, 2005; Goodman, 1997, 2001). It was administered to parents and youth and used to generate an SDQ total symptoms score (reflecting hyperactivity, inattention, behaviour problems, emotional symptoms and peer problems). The SDQ symptom items do not contain items on elated or expansive mood.

In addition, we used the SDQ total impact score, a measure of overall distress and social impairment due to all mental health problems (Goodman & Scott, 1999). It specifically inquires about impairment in the domains of family, school, learning and leisure. Hereafter, we refer to this score as social impairment.

The Development and Well-Being Assessment (DAWBA) was used in the survey and has been described extensively (Ford, Goodman, & Meltzer, 2003; Goodman, Ford, Richards, Gatward, & Meltzer, 2000). It is a structured interview administered by lay interviewers. The questions are closely related to DSM-IV (American Psychiatric Association (APA), 2000) diagnostic criteria and focus on current rather than lifetime problems. The k-statistic for chance-corrected agreement between two raters was .86 for any disorder (SE .04), .57 for internalising disorders (SE .11), and .98 for externalising disorders (SE .02) (Ford et al., 2003). Children were assigned a diagnosis only if their symptoms were causing significant distress or social impairment. The DAWBA interview was administered to all parents and to all youth aged 11 or over. DSM-IV diagnoses are assigned by integrating the parent, youth and teacher reports on symptoms and impairment as extensively described (Ford et al., 2003). Further information on the DAWBA is available from http://www.dawba.com, including online and downloadable versions of the measures and demonstrations of the clinical rating process.

The 2007 survey incorporated questions on elated mood and symptoms ofmania that had not been administered in 2004. The complete bipolar section of the interview can be seen at http://www.dawba.com/Bipolar. In summary, the parents of 8–19-year-olds and the 11–19-year-olds themselves were presented with the following preamble: ‘Some young people have episodes of going abnormally high. During these episodes they can be unusually cheerful, full of energy, speeded up, talking fast, doing a lot, joking around, and needing less sleep. These episodes stand out because the young person is different from their normal self.’ They were then asked: ‘Do you [Does X] ever go abnormally high?’, to which they had the options of answering: No, A little, A lot. Those who answered ‘A little’ or ‘A lot’ were asked 26 more questions about specific symptoms ofmania, including those stipulated by DSM-IV (American Psychiatric Association (APA), 2000), that may occur during such episodes of going high. BP was diagnosed according to DSM-IV criteria, although no distinctions between BPI (which requires the presence of at least one episode of mania) and BPII (which requires the presence of depression and at least one episode of hypomania) were made and, accordingly, there was no requirement for the presence of a depressive episode; hence, the minimum required duration was four days. The DSM-IV and ICD-10 largely overlap with regard to symptom criteria. Here we refer explicitly to the DSM-IV in order to facilitate comparability with studies in the USA, where the bipolar debate originated. The category we designated BP-NOS was defined by the following requirements:
Table 1 Comorbid associations of BP-NOS by reporting source

<table>
<thead>
<tr>
<th></th>
<th>Any disorder</th>
<th>ADHD</th>
<th>CD/ODD</th>
<th>Depression</th>
<th>Anxiety</th>
<th>PDD</th>
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<tr>
<td>Parent-based diagnosis</td>
<td>% (N)</td>
<td></td>
<td></td>
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<tr>
<td>BP-NOS (n = 58)</td>
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<tr>
<td>OR</td>
<td>24.6</td>
<td>31.5</td>
<td>21.1</td>
<td>41.1</td>
<td>2.5</td>
<td>16.3</td>
</tr>
<tr>
<td>CI</td>
<td>(13.0 to 46.4)</td>
<td>(15.7 to 63.4)</td>
<td>(11.6 to 38.4)</td>
<td>(9 to 17.6)</td>
<td>(9 to 6.6)</td>
<td>(5.6 to 47.3)</td>
</tr>
<tr>
<td>Youth-based diagnosis</td>
<td>% (N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>BP-NOS (n = 48)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>OR</td>
<td>6.4</td>
<td>6.0</td>
<td>7.3</td>
<td>2.4</td>
<td>3.8</td>
<td>0</td>
</tr>
<tr>
<td>CI</td>
<td>(3.4 to 12.0)</td>
<td>(1.7 to 20.6)</td>
<td>(3.4 to 15.8)</td>
<td>(3 to 18.5)</td>
<td>(1.6 to 9.3)</td>
<td>–</td>
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</tbody>
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*** p < .001 or ** p < .01 in logistic regression models.
elevated or expansive mood. By parent report, 10.5% were mildly screen positive (replying ‘a little’ to the screening question) and a further 2.2% were strongly screen positive (replying ‘a lot’ to the screening question). By youth report, 23% were mildly screen positive and a further 5% were strongly screen positive.

Prevalence of episodes qualifying for BP-NOS was 1.1% (58/5,247) and 1.5% (48/3,295) according to parent and youth report respectively. Boys made up 64% of those assigned BP-NOS as judged by parent report and 42% of those assigned BP-NOS as judged by youth report; neither proportion differed significantly from the sample as a whole. By parent report, the mean age of those with BP-NOS was 12.8 (SD = 3.4) years as compared to 13.4 (SD = 3.3) years for those without (not significant), whereas by youth report, the mean age of those with BP-NOS was 13.7 (SD = 1.7) years as compared to 14.8 (SD = 2.4) years for those without ($p < .01$). Kappas for inter-rater agreement between parent- and youth-rated BP-NOS were .02 (not significant).

The relationship between episodes of elated mood and age is shown for each informant in Figure 1. For those with BP-NOS according to parent or youth report, there was no significant association of episode duration with age across the 8–19-year age span: for youth report (only available from the age of 11), the Spearman correlation between age (banded) and duration (banded) was -.06 ($p = .70$); the corresponding correlation for parent report was .15 ($p = .29$).

Table 1 presents the comorbid associations of BP-NOS by parent and youth report. Parent-reported BP-NOS showed particularly strong associations with attention deficit/hyperactivity disorder (ADHD) and conduct or oppositional defiant disorder (CD/ODD) as well as pervasive developmental disorder (PDD). Youth-reported BP-NOS was significantly associated with CD/ODD, ADHD and anxiety disorders. Neither parent- nor youth-reported BP-NOS was associated with depression.

BP-NOS, assigned based on either parent or youth report, was significantly associated with social impairment, as judged by the SDQ total impact score (Table 2). The associations remained significant after adjusting for comorbidity with anxiety disorders, depression, ADHD, CD/ODD and PDD. Youth-reported BP-NOS remained a significant predictor of social impairment even after further adjustment using the SDQ total symptoms score. Parent-reported BP-NOS was no longer significantly associated with impairment after these adjustments. Repeating these analyses after adjusting for moderate to heavy substance did not change the pattern of associations (results available from the authors upon request).

Episodes lasting between one hour and one day did not differ significantly from episodes lasting between one day and three days with respect to rates of comorbidity, total SDQ symptom score and overall social impairment (Table 3).

**Discussion**

We used parent- and self-reported data from a national community survey of 8–19-year-olds to...
examine the prevalence and correlates of BP-NOS, defined as meeting DSM-IV symptom and impairment criteria for mania during episodes lasting less than four days. Recurrent episodes of mania or hypomania meeting DSM criteria for episode duration were rare and almost completely restricted to 16–19-year-olds. Even in this late teenage range, the prevalence was only in the .1–.3% range.

To our knowledge, this is the first epidemiologic study to report on the prevalence of children and adolescents meeting symptom and impairment criteria for mania during episodes of short duration. Previous reports on subthreshold symptoms in adolescents (Carlson & Kashani, 1988; Johnson, Cohen, & Brook, 2000; Lewinsohn, Seeley, & Klein, 2003) as well as most other epidemiologic studies were conducted before the onset of the debate on BP in children and adolescents (Costello et al., 1996; Goodwin & Jamison, 2007; Verhulst, Van Der Ende, Ferdinand, & Kasius, 1997). It is perhaps indicative of the prevalence expectations for BP among European child psychiatrists that several landmark studies have decided against ascertaining it as a diagnostic outcome (Fombonne, 1994; Steinhausen, Metzke, Meier, & Kannenberg, 1998; Wittchen, Nelson, & Lachner, 1998; Esser, Schmidt, & Woerner, 1990). By insisting on the elation criterion, our study avoids problems estimating rates of BP-NOS that include episodes of pure irritability – a frequently expressed concern in the current discussion about BP (Carlson, 2007; Geller et al., 2007; Leibenluft et al., 2003). While DSM-IV BP was rare, the shorter episodes of elated mood we labelled BP-NOS were considerably more common. In view of its relatively high prevalence, the question as to whether BP-NOS represents a valid disorder is of considerable relevance to service planning as well as to clinicians and families.

The association of BP-NOS with other disorders was more pronounced by parent- than by self-report; however, regardless of reporting source, CD/ODD showed the highest rates of co-occurrence with BP-NOS. This confirms previous findings about the comorbidity between BP-NOS and externalising disorders (Axelson et al., 2006). Previous accounts of BP in youth have questioned the validity of the bipolar diagnosis in children (Carlson & Meyer, 2006; Harrington & Myatt, 2003; Moreno et al., 2007), raising the concern that what is labelled BP in youth, especially in cases that do not meet the DSM-IV duration criterion, may simply be an epiphenomenon of other, mainly externalising, childhood disorders, or of moderate to heavy substance use. If this were so, then we anticipated that the presence of BP-NOS should be unrelated to social impairment once allowance was made for comorbid psychopathology or moderate to heavy substance use. We found that for both youth- and parent-reported BP-NOS, adjustment for comorbid diagnoses and substance use reduced but did not eliminate the association between BP-NOS and social impairment. This suggests that BP-NOS may represent clinically relevant psychopathology and is not necessarily just a consequence of other DSM-IV diagnoses. In addition, it makes it unlikely that BP-NOS is the result of drug- or alcohol-induced elation. To reduce the risk of making too little allowance for comorbid symptoms that are present and meaningful, even if they don’t meet threshold for diagnosis, we then adjusted for dimensional measures of psychopathology (SDQ total symptom scores) as well as psychiatric diagnoses. Only self-reported BP-NOS remained significant after this further adjustment. The fact that prediction from parent-reported BP-NOS to social impairment was rendered non-significant casts some doubt on the validity of parent-reported BP-NOS, but could also be due to our having over-adjusted by making too much allowance for comorbid psychopathology.

We find that no clear distinctions can be drawn between episodes lasting between one hour and one day and those lasting between one and three days in terms of their association with the SDQ total-symptom and impairment scores. This mirrors findings in the adult literature (Angst et al., 2003). It should be emphasised, however, that this lack of difference by no means excludes the possibility that these associations are non-specific, rather than an indication of equivalence of manic symptomatology.

### Table 3 Comparison of episode duration within BP-NOS

<table>
<thead>
<tr>
<th>Episode duration</th>
<th>Comorbidity rate(^1) %</th>
<th>Total SDQ symptom score(^2)</th>
<th>Total SDQ impact score(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Parent-based diagnosis of BP-NOS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 hour–1 day (n = 44)</td>
<td>72</td>
<td>20.4 (6.2)</td>
<td>3.2 (2.3)</td>
</tr>
<tr>
<td>1 day–3 days (n = 14)</td>
<td>71</td>
<td>20.4 (6.5)</td>
<td>2.0 (1.9)</td>
</tr>
<tr>
<td><strong>Youth-based diagnosis of BP-NOS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 hour–1 day (n = 36)</td>
<td>33</td>
<td>15.6 (5.0)</td>
<td>1.3 (1.6)</td>
</tr>
<tr>
<td>1 day–3 days (n = 12)</td>
<td>46</td>
<td>17.6 (6.1)</td>
<td>1.7 (2.1)</td>
</tr>
</tbody>
</table>

\(\chi^2 = .02, p = .96\) \(t = -.033, df = 56, p = .97\)
\(t = -1.74, df = 56, p = .09\)

\(\chi^2 = .68, p = .41\) \(t = -1.1, df = 46, p = .27\)
\(t = -.68, df = 46, p = .50\)

The two different episode categories comprising BP-NOS are compared for each parent and youth report. The comorbidity (overlap with other DSM-IV disorder) rates are presented as percentages; \(^1\) denotes chi-square testing and \(^2\) denotes two-sided \(t\)-test.

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Using the term BP-NOS to describe short episodes of manic symptoms implies that the condition is on a spectrum with BPI and II. In support of this, one clinical study showed that 25% of youth with BP-NOS developed DSM-IV BP within the following 2 years (Birmaher et al., 2006). However, it should be noted that this study (Birmaher et al., 2006) required a minimum episode duration of four hours, as well as four cumulative lifetime days, in order to meet the criteria for BP-NOS, which is higher than the minimum duration that was required here. In addition, this study was on a clinic-based sample of youth presenting for treatment, rather than a community sample. A previous community study of adolescents found that ‘subthreshold’ BP, diagnosed using relaxed criteria for duration and symptom number, was associated with impairment and a family history of BP (Lewinsohn, Klein, Durbin, Seeley, & Rohde, 2003). Indeed, considerations about where to draw the boundaries of BP, in terms of episode duration, are ongoing even in the adult literature. In adults, epidemiological studies suggest that subthreshold BP is common, impairing and probably on a continuum with BPI and II (Angst et al., 2003; Merikangas et al., 2007): episodes of mania-like symptoms lasting between one and three days are indistinguishable from episodes lasting four days or more with respect to their clinical correlates (Angst et al., 2003). Similarly, episodes of mania-like symptoms lasting 2–6 days did not differ in outcome compared to episodes lasting seven days or longer (Judd et al., 2003).

On the other hand, some of our findings do not support the conclusion that BP-NOS, as defined here, is on a continuum with DSM-IV BPI or II. In our sample of 8–19-year-olds, the prevalence of BP-NOS was almost the same across the entire age span, and so too was the typical duration of reported episodes. The lack of age trends is contrary to what one might expect if short episodes of elation in childhood became progressively longer as the individual matures, eventually becoming long enough to meet DSM-IV duration criteria by late adolescence or early adulthood. In addition, and in keeping with previous results (Thuppal, Carlson, Sprafkin, & Gadow, 2002; Tillman et al., 2004), we found that parent–youth agreement for BP-NOS was no better than chance. This raises the possibility that parents and youths are reporting on two rather different constructs, even if they are being asked the same questions. This finding suggests particular caution when attempting to combine information from the two reporting sources using, for example, an ‘or’ rule as is frequently done in child and adolescent psychiatry. Finally, it is notable that BP-NOS showed no significant associations with depression by either informant. However, given that our survey focuses on depressive symptoms over the last month, rather than lifetime symptoms, these findings might represent an underestimate of the true association.

Overall, however, our findings call into question the extent to which BP-NOS in youth really is a variant of DSM-IV BP, superficially similar symptoms may not necessarily imply deeper similarities in aetiology or treatment response. Since clinical diagnoses of bipolar disorder in youth appear to be increasing in the USA (Blader & Carlson, 2007) and elsewhere (Holtmann, Poustka, Duikets, & Bölte, 2008), future research should continue to examine whether unequivocal bipolar disorder can be distinguished from manifestations that bear clinical similarities, but may be pathophysiologically distinct. Alternative conceptualisations, such as that of mood lability in youth (Stringaris & Goodman, 2008), a construct that is associated with a wide range of psychopathology and comorbidity, may therefore be helpful in formulating relevant research questions and avoiding possible semantic confusion. Indeed, our findings of low parent–child rating agreement and a wide association with externalising psychopathology – both suggestive of low diagnostic specificity – seem to mirror those of a previous study on adolescents in the community endorsing manic symptoms of at least two days’ duration (Carlson & Kashani, 1988).

The analyses presented in this paper use an epidemiological approach to examine a contentious topic. There are two main reasons why these results should be regarded as preliminary. Firstly, although the original sample was recruited from the community, only about two-thirds of those selected actually participated in 2004, and of those who did take part in the 2004 survey, only two-thirds participated in the 2007 follow-up that was the basis of this study. As a result, selective participation in both 2004 and 2007 may have biased our estimates of prevalence and morbid associations. Conceivably, there may have been attrition of cases with BP or BP-NOS and this may result in underestimating their prevalence. We adjusted for drop-out between 2004 and 2007 by using appropriate propensity weights; however, it was not possible to adjust in a similar way for incomplete participation in 2004, since detailed information on non-participants was not available. A second reason for regarding this study as preliminary is that a new measure of BP had to be developed at short notice to fit the constraints of a large epidemiological survey carried out by lay interviewers. While the preliminary validation data are encouraging, more detailed validation is required. Unfortunately, given the uncertain status of BP-NOS, there is no true ‘gold standard’ assessment for establishing criterion validity. We would also like to emphasise that the bipolar section of this instrument is yet to be validated for the purposes of clinical screening and decision making.

Further limitations also apply. We allowed an answer of ‘a little’ to count as endorsement of a distinct episode of elated mood, thus possibly risking over-ascertainment. However, we believe this risk is largely offset by requiring that DSM-IV symptom and...
impairment criteria are met during the episode. Also, the clinical relevance of bipolar disorders was judged from its association with social impairment as reported by parents or youth, rather than with clinician ratings of social impairment. Our study was cross-sectional, requiring caution when drawing aetiological inferences.

Supporting information

Additional supporting information may be found in the online version of this article:

Table S1 Baseline (2004) characteristics of those who did and did not participate in the 2007 follow-up (Word document)

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Key points

• Bipolar disorder meeting full DSM-IV criteria is rare in the general population of children and adolescents in the UK.
• Episodes of shorter duration (three days or less) during which full symptom and impairment criteria for mania are met are commoner. They are associated with other psychopathology, conduct disorder in particular, but contribute independently of other psychiatric diagnoses to overall social impairment.
• The parent–youth agreement for these short-lived episodes is no better than chance and their duration does not seem to change with age. These findings argue against construct validity and continuity with classical bipolar disorder.
• Further research to refine the phenomenology, longitudinal course and pathophysiology of mood lability and regulation will be important and may be relevant to clinical practice.
• Our study results should be seen in the context of their limitation of attrition and preliminary validation of the ascertainment instrument.

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