CLINICAL INQUIRIES

From the Family Physicians Inquiries Network

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FAST TRACK

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Family history and parent-reported screening tests can help you determine if a referral is in order

Which tool is most useful in diagnosing bipolar disorder in children?

Evidence-based answer

No single, well-validated screening instrument for clinical diagnosis of bipolar disorder in children exists. That said, the Kiddie Schedule for Affective Disorders and Schizophrenia (KSADS), a semi-structured interview, along with clinical evaluation by a childhood mental health specialist, is used most frequently in major research studies (strength of recommendation [SOR]: **C**). As a screening tool in the primary care setting, family history of bipolar disorder in either biologic parent increases the odds of diagnosis (SOR: **A**). High or low scores on parent-reported screening tests (Parent Young Mania Rating Scale [P-YMRS], Parent General Behavior Inventory [P-GBI], and Child Behavior Checklist [CBCL]) also significantly increase or decrease the likelihood of diagnosis (SOR: **B**).

Clinical commentary

Make sure it's not ADHD

When evaluating a child for mental health, behavioral, or academic concerns, I always begin with an assessment targeting potential attention deficit hyperactivity disorder (ADHD). Distinguishing mania from hyperactivity and impulsivity is difficult. The most useful clue is family history. Suspicion of bipolar disorder (based on mood cycling or family history) would prompt me to refer to a child mental health specialist. Also, when I'm treating a child with ADHD, I consider alternate or comorbid conditions when he or she fails

Evidence summary

Retrospective analysis of 2 large cohort studies of adults with bipolar disorder indicated that at least 50% of these patients had an onset of illness before age 19, establishing support for the presto achieve behavioral goals.

Of the rating scales reviewed above, I consider the P-GBI and the P-YMRS useful in risk stratification. However, screening instruments are less useful when a disease is rare (as with childhood bipolar disorder). Children with hyperactivity and impulsivity may have a range of conditions from hyperthyroidism to anxiety disorders, but we must listen to the history, observe the patient, and proceed with an evaluation based on the likelihood of disease.

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ence of bipolar disorder among children and adolescents.¹ The criteria in the 4th edition of the *Diagnostic and Statistical Manual of Mental Disorders* (DSM-IV) cannot be easily applied to most children and adolescents with bipolar disorder

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Likelihood ratios for 3 screening tools you can use in the office										
For ages 5–10*				For ages 11–17 [†]						
IF THE SCORE IS				IF THE SCORE IS						
	LOW	MOD. LOW	HIGH	VERY HIGH	LOW	MOD. LOW	HIGH	VERY HIGH		
THEN THE LR FOR THE INSTRUMENT IS					THEN THE LR FOR THE INSTRUMENT IS					
P-YMRS	0.08	0.48	6.94	8.92	0.20	0.32	4.07	7.41		
P-GBI	0.10	0.48	4.90	6.29	0.06	0.25	4.82	9.21		
CBCL	0.07	0.47	3.15	3.52	0.04	0.53	2.65	4.29		
* Population studied had a 50.3% prevalence of bipolar disorder.			† Population studied had a 40.7% prevalence of bipolar disorder.							

because most do not meet the criteria for Bipolar I or II, but fall into the less welldefined category Bipolar NOS (not otherwise specified).^{2,3}

Compared with adults, children and adolescents are more difficult to diagnose because they are less likely to have discrete episodes of mania, and instead present with severe irritability, rapid cycling, or mixed mania.^{2,4} In laddition, symptoms progress and evolve as children and adolescents grow.¹ Comorbid disorders such as ADHD, oppositional defiant disorder, conduct disorder, and learning disorders are common in this population, further complicating diagnosis.²

Screening instruments are imperfect

Different versions of the KSADS have been used in most research studies on this disorder.² Despite this, concerns about the validity of the instrument still exist because of lack of sufficient testing, vagueness of the diagnostic criteria, and the subjective nature of the test.^{5,6} Because specialized training is required to administer the test and testing can last a full day, its use in most office settings is impractical. It is also not meant as a stand-alone test, but to be used in conjunction with a clinical evaluation by a trained mental health professional.⁷

In a general clinical setting, family history and selected screening instruments may help to increase or decrease clinical suspicion for the disorder and guide referral for more specialized evaluation by a child mental health provider. In addition, a meta-analysis found that children or adolescents who have a biologic parent with bipolar disorder have 2 to 10 times the odds of being diagnosed with bipolar disorder.⁷

Three screening tests (CBCL, P-GBI, and P-YMRS) available for the office setting use parent-reported scores, and perform best when compared with KSADS as the standard.³ These instruments were associated with likelihood ratios that significantly improved the odds of diagnosis and could allow clinicians to stratify patients as high or low risk (**TABLE**).³

Recommendations from others

Two consensus conferences, a Canadian guideline, and a National Institute of Mental Health roundtable all concluded that there is currently no ideal test for the diagnosis of child and adolescent bipolar disorder, but that such an instrument needed to be developed.^{2,5,6,8} One consensus conference further concluded that the diagnosis is best made by childhood mental health specialists based on multiple informants, such as the child and parents, with symptoms present in at least 2 settings or by direct observation.⁶

A Canadian consensus conference proposed screening patients with depres-

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Children with bipolar disorder present with severe irritability, rapid cycling, or mixed mania **Bipolar diagnosis** CONTINUED FROM PAGE 839 sive symptoms for a history of hypomanic or manic symptoms, and consider an underlying mood disorder in those with vague or nonspecific somatic symptoms or reverse vegetative symptoms (eg, hypersomnia and hyperphagia). Their recommendations also emphasized screening for family history of bipolar disorder when there were clinical concerns.⁸

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Insomnia CONTINUED FROM PAGE 837

logs and a behavioral health provider offered patients a condensed education on sleep hygiene, stimulus control, and sleep restrictions strategies. The study was limited because of small sample size (<25). Generalizability to practice is restricted because sessions were conducted by a behavioral health provider, not a family physician.

Recommendations from others

The Agency for Healthcare Research and Quality recommends CBT as an effective treatment in the management of chronic insomnia.⁸ It also recommends that further large-scale RCTs be conducted to establish CBT's effectiveness across subsets of the population of individuals with chronic insomnia (ie, gender, age, shift workers, and those with psychiatric illnesses).

The American Psychological Association (APA) recommends CBT as the "treatment of choice" for chronic insomnia, with 70% to 80% of patients showing a treatment response.⁹

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recommends cognitive behavioral therapy as the treatment of choice for chronic insomnia

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