Are Oppositional Defiant and Conduct Disorder Symptoms Normative Behaviors in Preschoolers? A Comparison of Referred and Nonreferred Children

Kate Keenan, Ph.D.
Lauren S. Wakschlag, Ph.D.

Objective: The authors’ goal was to test the hypothesis that DSM-IV symptoms of oppositional defiant disorder and conduct disorder can be validly applied to preschoolers.

Method: Using a semistructured diagnostic interview, they assessed rates of symptoms of DSM-IV oppositional defiant and conduct disorders in 2.5–5.5-year-old children who were referred to a psychiatry clinic and a comparison group of nonreferred children.

Results: Clinically referred preschool children had significantly higher rates of oppositional defiant and conduct disorder symptoms than nonreferred children. Among nonreferred preschoolers, rates of all oppositional defiant and conduct disorder symptoms were at or below 8%.

Conclusions: DSM-IV symptoms of oppositional defiant and conduct disorders distinguish referred from nonreferred preschool children in a pattern consistent with that seen in older children. Preschool children who are not seeking mental health services do not have high rates of disruptive behavior problems. The DSM-IV nosology appears to be a valid diagnostic system for discriminating between typical and atypical disruptive behaviors in preschool children.
(SD=12.5) among referred children and 86.4 (SD=11.5) among nonreferred children.

DSM-IV symptoms of oppositional defiant and conduct disorders were assessed with the Schedule for Affective Disorders and Schizophrenia for School-Age Children—Epidemiologic Version (K-SADS-E) (10), a semistructured diagnostic interview. One of the clinicians administering the K-SADS-E to the biological mothers was a child psychiatrist; all of the other clinicians administering the interview were advanced clinical psychology students who held at least a master’s degree.

Some developmental modifications to the interview were made (see reference 11 for details) for the purpose of providing developmentally appropriate operational definitions or for eliminating symptoms that lacked face validity. For example, for stealing, we did not require the item to be of nontrivial value, as stated in DSM-IV, since preschool children would not usually attempt to take larger and more expensive items. Use of a weapon could include using a stick, rock, or bat. For the symptom of often loses temper, a child needed to have persistent, frequent tantrums (i.e., several times a day) from which recovery was slow. For the symptom of difficulty paying attention, we used examples such as being able to pay attention to a story being read. The symptoms ofcurfew violation, truancy, and running away were not included because of insufficient face validity. Symptom and duration criteria were applied as stated in DSM-IV. Kappa coefficients were 1.0 for conduct disorder and 0.74 for oppositional defiant disorder. Fisher’s exact tests were used to test for significant differences between the referred and nonreferred children.

Results

Rates for symptoms of oppositional defiant and conduct disorders for the clinically referred and nonreferred preschoolers are presented in Table 1. Rates of oppositional defiant disorder symptoms were significantly higher in referred than nonreferred preschoolers. The base rate of oppositional defiant disorder symptoms ranged from 0.0% to 8.0% in the nonreferred children (all but two symptoms had a base rate below 5.0%), whereas rates ranged from a low of 31.6% to a high of 72.2% among the referred children (Table 1). Only one nonreferred child (2.0%) met criteria for oppositional defiant disorder, compared with 47 (59.5%) of the referred children.

The majority of the comparisons of rates of conduct disorder symptoms yielded significantly higher rates among referred preschoolers than nonreferred children; base rates were below 5.0% for all conduct disorder symptoms among the nonreferred children. Four symptoms for which base rates were below 8.0% for both groups of children did not demonstrate discriminative validity: fire setting, breaking and entering, stealing with confrontation, and forced sexual activity. Only five of the nonreferred preschoolers were reported to have any symptoms of conduct disorder, and one nonreferred child met criteria for conduct disorder (the same child who met criteria for oppositional defiant disorder), compared with 33 (41.8%) of the referred children.

Discussion

Our results provide preliminary evidence for the discriminative validity of DSM-IV oppositional defiant and conduct disorder symptoms in preschool children. Both oppositional defiant and conduct disorder symptoms were rare among nonreferred preschool children, and the rate of these disorders was 2%, which is slightly lower than the rate reported among older children from similar environments (12). In contrast, oppositional defiant disorder symptoms were commonly endorsed among the clinically referred preschoolers, and a substantial minority endorsed conduct disorder symptoms. To our knowledge, this is the first report in which data are presented on rates of oppositional defiant and conduct disorder symptoms in referred and nonreferred preschool children. Testing the discriminative validity of these symptoms is one critical aspect for determining whether DSM-IV can be used validly in preschool children.

One could argue that in making developmental modifications to the assessment of oppositional defiant and conduct disorder symptoms, such as not requiring stolen objects to be of nontrivial value or defining weapons as sticks, rocks, or bats, results in defining a disorder with face validity. This does not appear to be the case. Although the functional equivalence of the operational definitions in the present study to those validated as symptoms in older children remains to be established, the symptom definitions are clinically discriminative.

The results presented here can be generalized to African American children living in urban poverty, a group of children who have often been underrepresented in the litera-
ture on diagnostic validity. Replication of our findings in larger and more diverse samples will allow for testing the diagnostic validity across age, gender, ethnicity, and socioeconomic status. Clearly, the validity of DSM-IV oppositional defiant and conduct disorders in preschoolers requires additional tests, including predictive validity. In addition, the utility of the developmental modifications used in the present study was not systematically assessed. A comparison of the validity of disruptive behavior symptoms in preschoolers generated by well-operationalized methods is a critical next step to identifying a developmentally appropriate diagnostic nosology for disruptive behavior disorders in preschool children.

Presented in part at the 15th World Meeting of the International Society for Research on Aggression, Montreal, July 2002. Received Jan. 10, 2003; revision received May 6, 2003; accepted July 15, 2003. From the University of Chicago. Address reprint requests to Dr. Keenan, Department of Psychiatry-MC 3077, University of Chicago, 5841 S. Maryland Ave., Chicago, IL 60637; kkeenan@yoda.bsd.uchicago.edu (e-mail).

Supported by NIMH grant MH-62437 (Dr. Keenan) and the Walden and Jean Young Shaw Foundation.

References


10. Orvaschel H: Schedule for Affective Disorders and Schizophrenia for School-Age Children—Epidemiologic Version (K-SADS-E), 5th ed. Fort Lauderdale, Fla, Nova Southeastern University, Center for Psychological Studies, 1994
