Short Communication

Youth Psychosis and the other Mental Illness: A Challenged Diagnosis

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ABSTRACT

Studies using standardized diagnostic interviews report particularly high comorbidity rates in children and adolescents with schizophrenia. However, the volume of symptoms other than those required to make the diagnosis of schizophrenia remains the subject of controversy. The question is to consider these symptoms as an additional diagnosis, or as associated characteristics. Be that as it may, the frequency of these symptoms highlights the problems of differential diagnosis encountered in early-onset schizophrenia, particularly during the initial phase of the disorder.

Keywords

schizophrenia, substance abuse, comorbidity, behavioral disorders, psychosis, child, adolescent

Introduction

Many studies raise the problem of possible kinship and the diagnostic limits between schizophrenia and autistic disorder. In the study by Asano and Ben-Meir, four of the schizophrenic children studied (23.5%) also had an associated diagnosis of pervasive developmental disorder [1-5]. Other studies also highlight the frequency of children who met the diagnostic criteria for autism before the onset of schizophrenia: 23% of cases in the study by Cantor [6] and 39% in the analysis by Watkins [7]. In the study by Alleghany-Rad, 35% of schizophrenic children studied had shown signs of Pervasive Developmental Disorder (PDD), including 13% with the complete criteria for autistic disorder [8]. Russell also found in 26% of children before the onset of schizophrenia, various symptoms, such as echolalia and motor stereotypies, usually observed in pervasive developmental disorders, without that these children nevertheless have all the criteria necessary for the diagnosis of autistic disorder [9]. It appears that a large number of schizophrenic children manifest early developmental delays and behavioral abnormalities that do not meet the strict diagnostic criteria for autistic disorder. Thus, Kalvin notes that while echolalia is found in 6% of schizophrenic children, 49% show a delay in psychomotor development, and 46% a delay in language [10]. However, other studies show that the risk of schizophrenia is no higher in children with a pervasive developmental disorder than in the general population [11,12]. Since schizophrenia appears to be a neurodevelopmental disorder, it may share common signs and symptoms with autistic disorder, even if the current data clearly distinguishes the two disorders [13,14], multiple and com...
plex developmental disorders. In the same way, several authors have identified a group of children with marked impairment in functioning in multiple areas (particularly on the cognitive and social levels) in whom the diagnosis of schizophrenia was often wrongly posed. All of these children have presented with delays or developmental problems in early childhood. All of them presented, to varying degrees, neuropsychological deficits affecting the visuo-spatial domain, attention, impulse control, regulation of emotions, and language, in particular in its receptive aspect. All had significant social adjustment difficulties, but without presenting the qualitative changes in social interactions characteristic of pervasive developmental disorders. Clinically, one or more symptoms corresponding to various diagnostic categories, such as borderline or schizotypal personality disorders or conduct disorder, were generally found; however, they had not met all the required criteria.

Similarly, Attention Deficit Hyperactivity Disorder (ADHD) was frequently found. Finally, all these children reported intermittent or subclinical psychotic symptoms: hallucinatory experiences, excessive and age-inappropriate fantasies, and mood instability [15-17]. In the absence of a precise diagnostic category for these children, Tobin proposed the term “multiple and complex developmental disorders” [18]. However, the question remains whether this clinical picture can be considered an autonomous diagnostic entity or whether it is only the early expression of a later evolution towards schizophrenia or other psychotic troubles [19]. Therapeutically, these children would not respond to antipsychotic treatment.

**Mood disorders**

Mood disturbances are usually reported in early-onset schizophrenia, with a frequency of about 27% to 83% [20-22]. Studies that have used standardized diagnostic interviews find mood disorders characterized by depressive type (depression, dysthymia) in children and adolescents with schizophrenia in 30% to 37% of cases, and in manic type in 4% of cases. Schizophrenia and affective psychoses share many common symptoms in children and adolescents, of athymic and psychotic nature [23,24]. All these data raise the problem of the diagnostic boundaries between schizophrenia, bipolar disorder, and schizoaffective disorder. They can also account for the frequency of diagnostic errors observed at this age of life [25-28]. About 50% of adolescents with bipolar disorder are first diagnosed as schizophrenic [29]. Several elements can help in the differential diagnosis between schizophrenia and affective psychoses. Clinically, several studies show that in children and adolescents, the onset of disorders most often appears insidious in schizophrenia, while in bipolar disorder it is most often acute, marked by disturbances of not only more frequent but also more severe moods. Similarly, the duration of the psychotic episode appears longer in schizophrenia, and the post-critical status is significantly more altered [30,31]. The study of premorbid history may also have some diagnostic value. In general, the premorbid history of schizophrenic children and adolescents shows significantly higher disturbances (developmental delays and disorders, social withdrawal, deterioration in peer relationships) than in children and adolescents with bipolar disorder or a schizoaffective disorder [32,33]. Finally, the study of family history shows that a history of schizophrenia is significantly more frequently found in the first-degree parents of schizophrenic children and adolescents,
while in the first-degree parents of children and adolescents with a disorder bipolar or schizoaffective disorder are more frequently observed with a history of mood disorders [34,35].

**Non-psychotic emotional and behavioral disorders**

Several studies emphasize the frequency of emotional and behavioral disorders observed in schizophrenic children and adolescents, the most frequently found diagnoses including, in order of decreasing frequency, attention deficit hyperactivity disorder, the Oppositional Defiant Disorder (ODD), separation anxiety disorder, generalized anxiety disorder and simple phobias [36].

At the same time, numerous studies emphasize the frequency of apparently psychotic symptoms (hallucinations, relational instability, affective instability, disorganized behavior) found in children and adolescents with non-psychotic emotional and behavioral disorders, the latter possibly being wrongly diagnosed as schizophrenic [37-39]. Compared to schizophrenic children and adolescents, they have little or no negative symptoms, behavioral irregularities, and disturbances in the thought process [40]. Follow-up studies show that they tend to progress more towards non-psychotic personality disorders, in particular of the borderline or antisocial type [41].

Furthermore, psychotic symptoms are frequently reported in mistreated children and adolescents, in particular in those with post-traumatic stress disorder [42]. Again, these children and adolescents can be misdiagnosed as schizophrenic, especially since a history of abuse is not uncommon in early-onset schizophrenia.

The psychotic symptoms reported in children and adolescents with post-traumatic stress disorder correspond to anxious and dissociative phenomena, including fears and intrusive thoughts as well as feelings of unreality or depersonalization [43].

**Substance abuse**

Numerous studies have highlighted the frequency of substance abuse found among schizophrenic adolescents, with comorbidity rates of up to 50%. They also show that it is not uncommon for substance abuse to be observed when first psychotic symptoms appear [44-46]. In these cases, the question may arise of a psychotic disorder induced by the substance or substances consumed. The persistence of symptoms after a sufficiently long period of abstinence (generally more than a week) should suggest the diagnosis of schizophrenia. However, it now seems demonstrated that substance abuse can precipitate the onset of schizophrenia in adolescents at risk, presenting in particular schizotypal personality characteristics or a family history of schizophrenia [47-51].

**Medical conditions**

Many medical conditions are likely to induce psychotic disorders: epilepsies, lesions of the central nervous system (brain tumors, congenital malformations, traumatic brain injuries), neurodegenerative diseases, metabolic diseases and genetic abnormalities (endocrinopathies, Wilson disease), toxic encephalopathies, and infectious diseases (encephalitis, meningitis, infection with the human immunodeficiency virus). Some of these conditions may have an etiological role in the onset of schizophrenia, as is the case, for example, for bicycle-cardio-facial syndrome [52].

**Conclusion**

Studies using standardized diagnostic interviews report particularly high comorbidity rates in children and adolescents with schizophrenia. It appears that a large number of schizophrenic children man-
ifest early developmental delays and behavioral abnormalities that do not meet the strict diagnostic criteria for autistic disorder. Lack of an accurate diagnostic category capable of accounting for these children’s clinical picture, to bin proposed the term “multiple and complex developmental disorders”. The premorbid history of schizophrenic children and adolescents shows significantly higher disturbances than in children and adolescents with bipolar disorder or a schizoaffective disorder. Compared to schizophrenic children and adolescents, they have little or no negative symptoms, behavioral irregularities, and disturbances in the thought process. The persistence of symptoms after a sufficiently long period of abstinence (generally more than a week) should suggest the diagnosis of schizophrenia.

References