The schizophrenia spectrum of disorders have a peak age at onset from the late teens to mid-twenties. Childhood-onset schizophrenias are considered a rare but a generally more severe form of the condition, potentially providing an opportunity for further understanding aetiology because of a greater loading of causal factors. Epidemiological data on childhood-onset psychosis are lacking, although evidence from cohort studies suggests that cases tend to have a more insidious onset and higher rates of comorbid developmental disorders compared with adult-onset illness. The largest such cohort comprised approximately 100 North American individuals. However, it is not clear how representative these were of childhood-onset schizophrenia; psychoses more generally, having been recruited via a highly specialist referral centre. The objectives of the present study were to establish the incidence, symptom and treatment profiles, sociodemographic characteristics and short-term course in all cases of childhood-onset schizophrenia-spectrum disorders occurring in the British Isles over a 12-month period.

**Method**

Individuals under 14 years, presenting from 1 September 2010 to 1 September 2011 with suspected non-affective psychosis were notified by the treating child psychiatrist through the Child and Adolescent Psychiatric Surveillance System (CAPSS), which is operated by the Royal College of Psychiatrists’ Centre for Quality Improvement. Notifying clinicians completed initial and 1-year follow-up questionnaires. The mean return rate for CAPSS reporting cards during the study was 67%, including ‘nil returns’. To reduce the risk of unreported cases, circular reminder emails were sent to the Royal College of Psychiatrists in Scotland Faculty of Child and Adolescent Psychiatry and the Quality Network for In-Patient CAMHS (QNIC), which ascertained only two additional cases.

Incidence was calculated as the number of cases reported/total children in that age range (10–14 years) within the population (UK and Republic of Ireland) expressed as cases per 100 000. Population denominator estimates were obtained from the UK Office of National Statistics (ONS) and the Central Statistics Office (Ireland). Indices of urbanicity and multiple deprivation were derived from partial postcodes linked to the relevant ONS data. This study was approved by West London REC 2 and the National Information Governance Board (NIGB) under Section 251.

**Results**

Figure 1 shows a flow diagram of case reporting. Of 122 reported cases, a total of 28 potential cases, from 16 different clinicians, were unable to be followed up as there were insufficient data obtained to judge eligibility. However, these latter reports were likely to represent misreports rather than true cases (Fig. 1). Thus, our analysis was based on the 8 confirmed cases of early-onset non-affective psychosis, equating to an overall incidence estimate of 0.21/100 000 (95% CI 0.08–0.34). A sensitivity analysis suggested that the range of incidence estimates is from 0.21 to 1/100 000 at-risk population, assuming a minimum of 8 and a maximum of 39 true cases (the latter value includes the 28 cases that were reported with no further information provided and the additional three cases lost to 1-year follow-up). One individual was classified as having schizoaffective disorder, depressive type (incidence 0.026/100 000), one with schizoaffective disorder, mixed type (0.026/100 000), three with paranoid schizophrenia (0.078/100 000), one with unspecified non-organic psychosis (0.026/100 000), one with other acute psychotic disorder (0.026/100 000) and one with undifferentiated schizophrenia (0.026/100 000).

Five individuals were female; six were White, one Black and one Asian. The mean age was 12.98 years (range 11–13 years, s.d. = 1.09). Five had a confirmed or probable family history of psychotic disorder (schizophrenia in one individual and transient psychosis in another) and in three more than one family member was affected. The median home population density was approximately 8 people per hectare (large British cities have densities usually in excess of 35 people per hectare).

Delusions occurred in all individuals (generally paranoid in content) and hallucinations in seven individuals but also in three individuals with unrelated diagnoses at follow-up. Other symptoms reported were formal thought disorder (n = 6), depressed mood (n = 4), conduct problems/disturbed behaviour...
Our findings highlight both the rarity and the general severity of very early-onset schizophrenia. In contrast to previous findings in schizophrenia in early adulthood, there was no suggestion of an excess of males, Black and minority ethnic people or urban dwellers. High rates of admissions to hospital and multiple trials of antipsychotics suggested a degree of complexity and treatment resistance. Our cases were obtained from a national population using an established surveillance system. The main limitation is the very small number of cases confirmed at follow-up and the number of reports with no associated information, curtailing our ability to make inferences. The high rates of ‘false positives’ underline the challenges of accurate diagnosis, but the low number of confirmed cases is also a finding in itself. Delusions and thought disorder were more predictive of ‘true caseness’ than hallucinations, which may be a poor marker of emerging schizophriniform illness in children.
Incidence and 12-month outcome of childhood non-affective psychoses: British national surveillance study
Paul A. Tiffin and Charlotte E. W. Kitchen
BJP 2015, 206:517-518.
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