Correspondence
Edited by Kiriakos Xenitidis and Colin Campbell

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Psychotic experience: things to consider
Kelleher et al’s study is very interesting and raises some important questions, but we think that it also has some confounding factors that need to be addressed before conclusions are made. In addition, there are some methodological issues which we would like to be clarified. The response rate in study 1 is 52%, which might not be enough to support the conclusion of this kind of study. Second, owing to the different inclusion criteria in studies 1 and 2, there is a strong case for non-response bias. The way in which the first interview sample (study 3) was assembled seems unclear. Also, the way in which the second interview sample (study 4) was composed raises questions as to whether it can truly be considered a sample that represents the general population as claimed in the article. As far as confounding factors go, there is no mention of psychoactive substance misuse. With the potential of drugs to produce hallucinogenic effects, and the known link between conduct disorder, depression and attention-deficit hyperactivity disorder with substance misuse comorbidity, there is a chance that this could lead to results that do not reflect the true nature of the link between psychotic symptoms and non-psychotic disorders.

Another thing that could possibly be of interest and could affect the overall conclusions of the study is whether the study made any kind of differentiation between hypnagogic, hypnopompic and daytime hallucinations. Last, there is no mention on the effects of the hallucinations on the children and adolescents, whether they have perceived them as positive, negative or neutral, and whether they have sought any help or counselling because of them. There is also no mention of help-seeking or school and family problems among the children and adolescents who were classified as having a diagnosable non-psychotic disorder, which might have been a more precise way to link the severity of childhood and adolescent problems than the simple use of the number of comorbid diagnoses assessed in one interview in a non-clinical setting.


Authors’ reply: There are a number of misunderstandings put forward by Kostic et al that we should clarify. First, it is important to correct the authors with regard to their understanding of the issue of confounding: a confound is a variable of relevance in epidemiological models of causation. To be clear, we did not suggest in our report that psychotic symptoms somehow cause psychiatric disorder. Symptoms and signs of course cannot cause pathology; rather, they act as clinical risk markers for disease. Using an analogy from respiratory medicine, the authors’ suggestion that we should control for substance misuse (which is a potential cause of psychotic symptoms) makes no more sense than suggesting that respiratory researchers should control for cigarette smoking when looking at haemoptysis as a risk marker for lung pathology. That is, haemoptysis alerts the clinician to the likely presence of pathology (i.e. it is a risk marker); the cause of the pathology remains to be determined. Similarly, we showed that psychotic symptoms act as risk markers for a broader range of psychopathology than has generally been recognised (and, in particular, for multimorbid psychopathology). In the same way that there are multiple mechanistic causes for the occurrence of haemoptysis in lung pathology (e.g. cigarette smoking, infection, trauma), there are also likely multiple mechanistic causes for the occurrence of psychotic symptoms in psychopathology. In this regard, we would direct the authors to paragraph three of the Discussion, in which we put forward a number of suggestions for such causes.

Kostic and colleagues also wonder whether the response rate in study 1 or the fact that study 4 specifically overscored for psychopathology may have affected the validity of these findings. Unfortunately, we do not have space to provide a comprehensive explanation of the epidemiological impact of response rates on findings; however, it is important to clarify that, although response rates can introduce bias with regard to reported incidences or prevalences, they usually have little effect on statistical measures of association. With regard to study 4, which purposely overscored for psychopathology, this is, in fact, the very methodological basis of a case–control study. A statistical weight must be applied to determine population prevalences from such an approach but, as evidenced by the many thousands of case–control studies in the medical literature, this does not create problems for identifying associations that can be generalised to the population. Quite aside from this, we would remind the authors that the best way to address the possibility that sampling and other biases are responsible for a set of results is independent replication; our findings were replicated across multiple independent studies, led by multiple independent teams in multiple independent centres. With regard to symptom inclusion, in accordance with the guidelines of the interview instrument (the Schedule for Affective Disorders and Schizophrenia for School-Aged Children), hypnopompic, hypnagogic and drug-induced hallucinations were excluded, as were symptoms experienced only in the context of febrile illness.

Last, Kostic and colleagues state that there was no mention of the potential role of ‘school and family problems’ in our findings, although we specifically suggested this as an important issue in our discussion. In fact, we have already published results from study 4 (in this journal, in fact) on the relationship between...
psychotic symptoms and a number of measures of school and family problems, including bullying, interparental domestic violence and physical and sexual abuse. We cited this in the paper. Furthermore, Kostic et al will be glad to know that a report on the relationship between childhood trauma and psychotic symptoms in another of the samples (study 2) is currently under review (details available from the authors on request). However, it is important to recognise that, again, the authors are raising an issue of causality in the relationship between psychotic symptoms and psychopathology: the point of the current paper, on the other hand, was to highlight new developments in our understanding of the importance of psychotic symptoms as clinical risk markers for psychopathology.

We appreciate that Kostic and colleagues are certainly not the only individuals who may have had conceptual misunderstandings about the above epidemiological points and we thank them for the opportunity to clarify some of these issues for the benefit of other readers with similar questions. We are also pleased to find that the Journal’s readers are actively discussing the importance of assessing psychotic symptoms in the context of non-psychotic psychopathology. As well as recognising that psychotic symptoms are risk markers for a range of non-psychotic Axis I disorders in general, and for multimorbidity in particular, we would also especially encourage discussion about findings on the importance of these symptoms as risk markers for suicidal behaviour in young people with psychopathology. Considering the serious implications of these findings, an improved awareness of the significance of these symptoms among clinicians is urgently needed.


Author’s reply: I agree with Dr Shepherd that there is a need to better define outcomes in clinical trials. It is correct that we defined recovery as a sustained remission of psychiatric symptoms. Indeed, we followed the definition recommended by the International Society for Bipolar Disorders (ISBD). The term recovery in the ISBD consensus guidelines is based on sustained absence of or low-severity symptomatology without considering functional outcomes.

Observational studies in bipolar disorder, however, have in fact shown that symptomatic remission is not always accompanied by functional recovery, which supports Dr Shepherd’s point that symptom resolution is not always followed by improved functional outcomes such as adaptation to the experience. I agree with Dr Shepherd that functional outcomes allow clinicians to make better treatment decisions that are more patient-centred. Furthermore, in the consideration of regulatory approval around the globe, symptom improvement is the main criterion for a new treatment to get approved. Including functional outcomes in the regulatory approval of pharmacological treatments would be beneficial to patients.

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Is this a non-inferiority trial?

Crawford et al. have set out to investigate whether screening for suicidal ideation among people who attend primary care services and have signs of depression increases the short-term incidence of feeling that life is not worth living. It seems to me that this is a non-inferiority trial, i.e. the authors want to show that screening is no worse than not screening. This raises a number of design issues.

First, the trial is powered to detect an increase in the proportion who felt their life was not worth living from 30% to 45%. This seems a clinically large increase and suggests that anything short of a 50% increase in relative risk is acceptable. Second, having calculated the sample size based on relative risk, they analyse the main results using odds ratios rather than relative risk, so that it is difficult to see what sort of increase in relative risk was found and impossible to see the confidence interval around the relative risk. Third, if this is seen as a non-inferiority trial, arguably screening would be regarded as non-inferior provided that the possibility of the suicidal ideation rate being 50% worse than non-screening could be ruled out (in the sense that the 95% confidence interval for the difference in ideation rates would not include 50% inferiority relative to the non-screened group). We only have the confidence interval around the odds ratio to go on, but given how wide that is, it is highly likely that the confidence interval would include the 50% increase in relative risk. For these reasons I think the results should be treated with caution.

Delay in starting clozapine and treatment guidelines

There is a reasonable level of information to suggest that clozapine is effective in patients who have treatment-resistant schizophrenia. Hence, clozapine should be started at the right time so that patients can draw maximum benefit from it. In this vein, the article by Howes et al. provides important insights into the clinical practice with regard to the use of clozapine. The authors showed that clozapine is delayed by about 4 years and many patients are treated with polypharmacy and receive higher than recommended doses, which is contrary to the recommendations made by several practice guidelines. However, it is important to note that the conclusions drawn about the delay in starting clozapine might not be a true reflection of actual delay, because often patients who are offered clozapine refuse to take it. Hence, some of the delay may be due to lack of agreement of the patient and this in general does not reflect the delay in the clinician offering the medication. It would have been better had the authors extracted the data pertaining to initial offering of clozapine and the number of patients who refused clozapine at the first instance as part of this study. This would have actually given the true clinical picture. Another issue is the definition of duration of illness used. The authors have defined duration of illness as ‘the time from the first recording of the diagnosis of a psychotic illness by a clinician to the present’, which may not be a true reflection of duration of illness.
illness, because there may be varying periods of duration of untreated psychosis and this can have its own treatment implications. Despite these shortcomings, findings of the study suggest that even with a national healthcare system in place and the wider dissemination of treatment guidelines, there is still only a modest impact of these on real clinical practice. The possible effect of treatment guidelines is reflected by the fact that today patients receive fewer trials of other antipsychotics (2.8 v. 4 trials) before being started on clozapine compared with earlier studies.2


Attention-deficit hyperactivity disorder across the lifespan

Michielsen et al conclude that the personality traits they call attention-deficit hyperactivity disorder (ADHD) do not fade or disappear in adulthood.1 Yet such a gradual extinction throughout life is precisely what their study proves.

The authors quote prevalences from previous studies as high as 7% in children and 4.4% in working-age adults. Their own study shows a prevalence in old age of 2.8%, with higher rates in the 60- to 70-year age group (4.0%) than in those over 70 (1.1%). In other words, there is a steady decline in the prevalence of ADHD caseness throughout life, way over and above that which could plausibly be caused by higher mortality among impulsive individuals.

These data show conclusively that, in common with many problematic personality styles, poor attention, impulsivity and hyperactivity tend to gradually lessen in intensity with age. Thus the study is further evidence that ADHD merely represents a cluster of personality traits which, given their high prevalence, cannot even be considered abnormal, rather than a disease entity.

Declaration of interest

The views expressed are those of the author and are not necessarily shared by his employer.


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Michielsen et al,1 while describing the background and aim of this study, mention that ADHD could lead to significant impairment in older age without providing evidence of such impairment. Certainly from clinical experience and previous studies we know that there are other mental disorders such as depressive illness, anxiety disorder and dementia which are relatively common in older age and likely to cause either similar or more severe impairment. The authors discuss this in some detail in their description of the limitations of this study but fail to consider this when drawing a conclusion about prevalence.

It is essential, according to DSM-IV criteria, for a diagnosis of ADHD to rule out any possibility of the symptoms being better accounted for by another mental disorder.2 Unfortunately, the authors do not rule this out while studying the prevalence despite using a diagnostic instrument strongly based on the DSM-IV criteria.

Before we start diagnosing ADHD in older age groups it is important to exclude more prevalent and widely recognised mental health problems such as mild cognitive impairment and dementia. Looking at the diagnostic instrument DIVA 2.0, we can easily identify many symptoms which can be more readily explained by other more prevalent functional and organic illnesses.3 This explains why the DIVA 2.0 (as the authors in this study rightly mention) has no evidence for its use in old age. Is retrospective data collected from an older person’s recall of being inattentive or hyperactive as a child in different situations valid? More so when DSM-IV clearly advises caution for diagnosing this even in adults without any corroborating information, which was missing in this study.

We would thus suggest extreme caution before we start even suggesting the concept of ADHD in older adults and taking this...
any further. There are greater and more relevant issues in older age that need to be tackled before we start inventing any new diagnoses.

3 Kooij JJS, Francken MH. DIVA 2.0: Diagnostic Interview Voor ADHD in Adults bij volwassenen [DIVA 2.0: Diagnostic Interview ADHD in Adults]. DIVA Foundation, 2010.

Authors’ reply: Braithwaite wonders why we state that ‘the personality trait’ ADHD does not disappear in adulthood, while in our study it seems that ADHD does gradually lessen with age. A first comment is that ADHD is not a personality trait, but a neuropsychiatric disorder. It has an early onset and symptoms do persist into adulthood. Our study aimed to assess whether this also extends into later life and we found that this was indeed the case in 2.8–4.2% of those examined. We agree that the prevalence rates found over the lifespan change a little and in our study we found lower prevalence rates among the oldest old. However, the prevalence rates we found are substantial and, if replicated, this would mean that ADHD is by no means limited to children or to younger adults.

Routh & Jackson rightly point out some limitations of the paper. The first point is that we did not rule out any other DSM-IV diagnosis, and the second pertains to the limited validity of recollecting childhood memories in older age. We agree that both points are important and have discussed them in the Discussion of the paper. A third point is that according to Routh & Jackson we have found no evidence of impairment of ADHD in old age, which might be taken as evidence of limited validity of our measurement of ADHD. Only few studies have been conducted in older adults with ADHD and those studies did find impairments.1–3 In our study, those diagnosed with ADHD did report lifelong impairment in four of the five areas of functioning assessed, which is substantially more than DSM-IV requires for the diagnosis.4

We agree that other psychiatric disorders may explain impairment and that the study would have been stronger if psychiatric comorbidity had been assessed. However, as the diagnosis of ADHD requires not only a current but a lifelong history of the typical symptoms, we think we have been able to discriminate from disorders with a later onset. Mild cognitive decline or dementia is indeed very impairing and an important health problem in older age. Although we did not diagnose these disorders, we did exclude respondents with a low score and/or persistent cognitive decline on the Mini Mental State Examination. Except for three excluded persons, all respondents were able to answer the questions of the interview. Therefore it is very unlikely that respondents with dementia were included in our study.

The conclusion that ‘there are greater and more relevant issues in older age that need to be tackled before we start inventing any new diagnoses’ seems ill founded. We agree that it is wise to be conservative in proposing new psychiatric diagnoses which may add to the ever increasing numbers of patients eligible for mental health treatments. However, ADHD is not a new diagnosis and it is extremely unlikely that it ceases to be active at any particular age.

1 Henry E, Jones SH. Experiences of older adult women diagnosed with attention deficit hyperactivity disorder. J Women Aging 2011; 23: 246–62.

Corrections

Dementia in the acute hospital: prospective cohort study of prevalence and mortality. Br J Psychiatry 2012; 195: 61–66. Table 3 (p. 64), last row, variable should read: Death within 14 days of index admission (n = 75), %.

Karl Jaspers – reflection (extra). Br J Psychiatry 202, 4. The doi is: 10.1192/bjp.202.2.155b. The online version has been corrected in deviation from print and in accordance with this correction.

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References
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