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**Authors' reply:** Although Drs Mushtaq & Helal noted the need for longitudinal studies in this area, they expressed several concerns, one regarding the small number of individuals with OCD in our study. We agree and noted this limitation in our original paper. We were constrained, however, by the prevalence of OCD in the population; the proportion of cohort members diagnosed with OCD at age 32 in our study (1.9%) was consistent with other epidemiological studies. Our conclusions nonetheless remain tentative until they may be replicated in another longitudinal study.

Drs Mushtaq & Helal also referred to a previously published study by our group, which examined risk factors for an OCD diagnosis at age 18. We have suggested that this discrepancy may be related to changes in the OCD criteria from DSM–III to DSM–IV, which reduced the reported prevalence of the disorder in the general population.<sup>1</sup> Study members diagnosed with OCD at age 32 may have represented a more severe and persistent subgroup relative to the larger proportion (4%) of cohort members diagnosed with OCD at age 18.

They refer to a cross-sectional study, conducted by Beers *et al*, that failed to find cognitive deficits in a group of 21 children diagnosed with OCD.<sup>2</sup> Although this study made a valuable contribution, the authors themselves noted the need to supplement their findings with results from 'carefully designed longitudinal studies.'<sup>3</sup> We suspect that the discrepancy between the results of this earlier study and our recent findings may be partially attributable to sampling differences, including referral bias. Participants in the earlier study were paediatric patients with OCD at a prestigious psychiatric institute, whereas the Dunedin cohort comprises a non-treatment-seeking population cohort from a range of socioeconomic backgrounds. Further, in the previous study, children with OCD who had a lifetime history of any other psychiatric diagnosis were excluded.<sup>2</sup> Obsessive-compulsive disorder, like most emotional disorders, is highly comorbid with other psychiatric conditions.<sup>4</sup> Although creating a 'pure' OCD group eliminates the influence of comorbid disorders, this advantage must be weighed against the likelihood of creating a non-representative, potentially less severe subgroup. Our study aimed to test for neuropsychological risk factors for adult OCD, as it presents in the general population, including comorbidity, and regardless of referral and treatment seeking. Thus, our study's aims, design and inferences differed decidedly from those of Beers *et al*.

Finally, Drs Mushtaq & Helal made the valid point that poor performance on neuropsychological tests may help to localise dysfunction in particular neuroanatomical substrates,

but it does not provide conclusive evidence for the cause of the pathology. Although our results are consistent with research that has demonstrated that children with OCD already show abnormalities in frontal and striatal volumes relative to comparison participants,<sup>5</sup> we do not suggest that we have provided definitive evidence of causality. Obsessive-compulsive disorder is likely to be multiply determined and not all participants with particular neuropsychological deficits will go on to develop this disorder.

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### James Joyce and Asperger syndrome

As an Irishman, I was pleased to learn both of Peter Tyrer's Celtic heritage and of his inclusion of *Ulysses* in his list of 'ten books'.<sup>1</sup> I agree with Tyrer that the sheer poetic beauty and creative manipulation of language make this book a great work. The author correctly points out Joyce's amazing ability to describe emotions with both beauty and precision. I would like to add to this issue further; I believe it is Joyce's description of complex feeling states that is one of the supreme facets of *Ulysses*. In drawing a distinction between emotions and feelings I do so in the same sense that Antonio Damasio does,<sup>2</sup> i.e. that feelings represent a composite of often numerous emotions further elaborated by various thought processes and felt in the viscera or body.

Joyce captures subtle feeling states so well that I was surprised to find, upon a recent trip to the 'auld sod', a book in a Dublin airport store suggesting that Joyce had Asperger syndrome.<sup>3</sup> I thought it a somewhat odd hypothesis that a man who could describe emotions/feelings so well would have a disorder whose key pathology is an impaired theory of mind. As Tyrer alludes, Joyce's use of the 'stream of consciousness' technique in his writing is much more akin to thought disorder – this was particularly true of his last book, *Finnegan's Wake*. Although Joyce experienced certain difficulties in this life, there is little evidence to suggest he was ever psychotic; and his creative deconstruction of language was no doubt a reflection of his genius for writing. However, Joyce had a daughter who developed schizophrenia so if there was a suggestion of mental illness influencing his work, a psychotic trait seems a more plausible thesis to me than Asperger syndrome.

The second aspect of Tyrer's article that I enjoyed was his anecdote of the late, great Aubrey Lewis berating a psychiatry trainee at the Maudsley Hospital for failing to have

read Jaspers in the original German text. This made me smile, as I had an almost identical experience as a senior house officer in neurology in Dublin. At the time, I was working for a prominent neurologist, Hugh Staunton – who, by the by, went to the same school as Joyce. During a morning ward round I was minded by Dr Staunton that the reason I had failed to spot a neurological sign in a man with von Recklinghausen's disease was that I had not read the author of this eponymous condition in the original German text. Somewhat belittled at the time, I now know I am in esteemed company.

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psychiatry  
in pictures

## *The Insect Twins (2009)*

Lucinda Richards



Lucinda Richards is a foundation trainee (year 2) at King's College Hospital, London. This work portrays the world as seen by patients with delirium that she has cared for.

'I wanted to consider how patients with delirium experience a sudden change in how they perceive the world around them. I am especially interested in how objects or people that normally provoke a neutral or positive reaction can become distorted into something terrifying. The terror and hallucinations that can occur in delirium are represented by the larger-than-life insects and the transformation of the seemingly innocent children into something disturbing and sinister. In addition, the juxtaposition of the apparently joyful chain of people with the dark, oppressive flats in the background has the effect of making the expression of joy seem false and fragile. The lightning strike, forming cracks in the architecture represents the destruction of normal brain architecture. The disturbances in temporal and spatial orientation are portrayed by the images of both night and day, and the distortion in the size of the architecture and insects.'

Edited by Allan Beveridge.

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