Reviewer's report

Title: Antioxidant defense system and family environment in adolescents with family history of psychosis

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Reviewer: Murat Kuloglu

Reviewer's report:

It is an interesting article that attempted to associate causal relationship between the antioxidant defense system of second degree relatives of first episode psychotic patients and healthy subjects. It is a very different and interesting approach that will able to demonstrate the vulnerability to psychosis on a robust biological basis. However there are some issues which should be identified. Firstly, I think that number of cases is small for comparing healthy subjects. I also suggest that authors should demonstrate the correlation results on tables. Authors include psychotic disorder not otherwise specified, schizophreniform disorder, depressive disorder with psychotic symptoms, bipolar disorder, schizophrenia, schizoaffective disorder and other psychotic disorders into first episode psychosis. However, the genetical background varies between-at least- mood disorders and schizophrenia. If there is a similarity in terms of antioxidant defense system between these disorders that were included, authors should discuss this in introduction.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

'I declare that I have no competing interests'