

Review of: "Effects of Schizophrenia on Attention"

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Potential competing interests: No potential competing interests to declare.

This manuscript provides a comprehensive review of attention deficits in schizophrenia, with a focus on switching and selective attention. The author successfully integrates findings from multiple studies to highlight the key roles of dopamine and glutamate in modulating attention in schizophrenia. The proposed experimental design using fMRI to investigate these attention deficits is innovative and could provide valuable insights into the neural mechanisms underlying schizophrenia. However, there are several areas that require further clarification and elaboration to strengthen the manuscript.

Major comments:

1. The manuscript would benefit from a clearer statement of the specific hypotheses being tested in the proposed experiments. It is important to delineate how these hypotheses address gaps in the existing literature.
2. The proposed experimental design is intriguing, but additional details are needed regarding the selection of participants, control conditions, and the specific statistical analyses to be used. Clarifying these aspects will enhance the reproducibility and robustness of the study.
3. While the manuscript mentions several neuroimaging findings related to attention deficits in schizophrenia, it would be beneficial to integrate these findings more explicitly with the proposed experimental design. This would provide a clearer rationale for the chosen fMRI methodology.
4. In addition to the proposed fMRI methodology, the use of advanced MRI techniques such as Quantitative Susceptibility Mapping (QSM) and Blood-Brain Barrier (BBB) imaging could provide complementary insights into the neurobiological underpinnings of attention deficits in neurological diseases. I recommend including a discussion of these advanced MRI modalities in the manuscript with citations of the following papers:

10.14336/ad.2018.0929

10.3389/fnins.2022.938092

10.3389/fnagi.2023.1111448

10.1186/s12987-023-00464-x

