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Corresponding author: Ke Li

lk081821@163.com

Author Affiliation:

Inner Mongolia Minzu University.

The role of microRNA in schizophrenia: a systematic review

Li, K; Zhu, L; Lv, HB.; Bai, YL; Guo, C; He, KJ.

ADMINISTRATIVE INFORMATION

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Review Stage at time of this submission - Completed but not published.

Conflicts of interest - None declared.

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Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 21 June 2024 and was last updated on 21 June 2024.

INTRODUCTION

Review question / Objective The objective of this research was to review the miRNAs that have been discovered in schizophrenia and how they are dysregulated within tissues. Additionally, the study aimed to emphasize the potential of specific miRNAs as diagnostic tools for schizophrenia. The analysis also delves into the potential contribution of dysregulated miRNAs to the development of schizophrenia.

Condition being studied The primary symptoms of schizophrenia encompass the emergence of hallucinations, delusions, disorganized thinking, and abnormal behavior, with certain individuals also exhibiting aggressive and suicidal tendencies.

METHODS

Participant or population The participants in the study comprised individuals with first-episode schizophrenia, refractory schizophrenia, early-onset schizophrenia, adults with schizophrenia, and healthy controls.

Intervention The use of antipsychotic medications can alleviate symptoms in patients with schizophrenia. Current treatments for schizophrenia include medications such as risperidone and clozapine.Symptoms of schizophrenia patients will be alleviated after receiving drug treatment.

Comparator Studies that do not incorporate a comparison group or condition.

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Study designs to be included The study encompasses reviews and experimental articles related to schizophrenia and miRNAs.

Eligibility criteria None.

Information sources An electronic search was performed in the PubMed database.

Main outcome(s) The article summarizes the miRNAs that are abnormally expressed in individuals with schizophrenia and identifies specific miRNAs as potential diagnostic markers for the disorder. The literature search was conducted within two weeks, and the inclusion and exclusion criteria were established over two days. Subsequently, literature screening was completed after two weeks, followed by summarization and thesis writing.

Quality assessment / Risk of bias analysis The articles included pertinent analyses on schizophrenia and miRNAs, excluding those lacking abstracts and those only tangentially related to the primary focus of the paper.

Strategy of data synthesis The data were derived from reviewing the results and conclusions in the literature and organizing them into categories.

Subgroup analysis None.

Sensitivity analysis None.

Language restriction English.

Country(ies) involved China.

Keywords microRNA; schizophrenia; etiology; biomarker.

Contributions of each author

Author 1 - Ke Li is responsible for writing the first draft. Email: lk081821@163.com Author 2 - Lin Zhu is responsible for writing the first draft. Email: a2278250569@163.com Author 3 - Haibing Lv is responsible for using the software to draw and chart. Email: lv5421213@163.com Author 4 - Yulong Bai is responsible for using the software to draw and chart. Email: 18147553467@163.com Author 5 - Chuang Guo were responsible for creating graphical representations and refining the initial ver-sion of the work. Email: guochuang@imun.edu.cn

Author 6 - Kuanjun He is responsible for the study design and revising and updating the initial draft of the manuscript.

Email: hekuanjun666@126.com