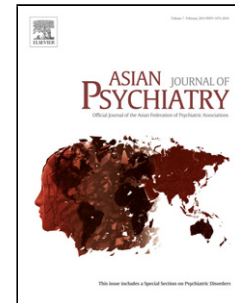


## Accepted Manuscript

Title: The Association between Borna Disease Virus and Schizophrenia: A Meta-analysis and Systematic Review

Authors: Milad Azami, Farid Azizi Jalilian, Ali Khorshidi, Younes Mohammadi, Zeinab Tardeh



PII: S1876-2018(17)30450-1  
DOI: <https://doi.org/10.1016/j.ajp.2017.11.026>  
Reference: AJP 1293

To appear in:

Received date: 26-7-2017  
Revised date: 27-10-2017  
Accepted date: 27-11-2017

Please cite this article as: Azami, Milad, Jalilian, Farid Azizi, Khorshidi, Ali, Mohammadi, Younes, Tardeh, Zeinab, The Association between Borna Disease Virus and Schizophrenia: A Meta-analysis and Systematic Review. Asian Journal of Psychiatry <https://doi.org/10.1016/j.ajp.2017.11.026>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# The Association between Borna Disease Virus and Schizophrenia: A Meta-analysis and Systematic Review

Milad Azami(MD)<sup>1</sup>, Farid Azizi Jalilian(PhD)<sup>2</sup>, Ali Khorshidi(PhD)<sup>3</sup>, Younes Mohammadi(PhD)<sup>4</sup>, Zeinab Tardeh(MD)<sup>1\*</sup>

1. Student research committee, Ilam University of Medical Sciences, Ilam, Iran
2. Department of virology, School of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran
3. Department of Epidemiology, Faculty of Medicine, Ilam University of Medical Sciences, Ilam, Iran
4. Modally of non-communicable disease research center, Hamadan University of Medical Sciences, Hamadan, Iran

\*Corresponding author: Zeinab Tardeh (MD), Student Research Committee, Faculty of Medicine, Ilam University of Medical Sciences, Ilam, Iran. Email: z.tardeh@gmail.com. Tel: +989337416255

## Highlights

This study represents a quantitative assessment of published data on the role of infection with BDV in schizophrenia. The analyzed data show an association between BDV and schizophrenia, which can be an important agent to be considered in pathogenicity of schizophrenia.

## Abstract

**Introduction:** Schizophrenia is a disabling psychiatric disorder. The role of Borna Disease Virus (BDV) in the etiology of schizophrenia has been suggested by several studies. However, the existence of such association remained controversial. The present meta-analysis was conducted to evaluate this association, which may contribute to the prevention and recovery of this disease.

**Method:** This systematic review and meta-analysis was conducted using preferred reporting items for systematic reviews and meta-analysis (PRISMA). Online databases including Scopus, PubMed, Science direct, Embase, Medline, PsycINFO, Web of Science and Google scholar search engine were searched until January 15, 2017. The articles that lacked a desirable quality were excluded from the final analysis. The heterogeneity of the studies was evaluated using Cochran's Q test and I<sup>2</sup> statistic. Finally, random effects model was used for combining the results using Stata software version 11.1.

**Result:** Overall, 30 studies containing 2533 cases and 4004 controls were included in the meta-analysis. The combined odds ratio (OR) for the relationship between BDV and schizophrenia was estimated to be 2.72 (95%CI: 1.756 - 4.208). OR based on diagnostic methods was estimated based on EIA method (OR=2.26 [95%CI: 0.48 - 10.64]), IFA method

Download English Version:

<https://daneshyari.com/en/article/6787455>

Download Persian Version:

<https://daneshyari.com/article/6787455>

[Daneshyari.com](https://daneshyari.com)