

INPLASY PROTOCOL

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**Review Stage at time of this
submission:** The review has
not yet started.

Conflicts of interest:
None.

Adherence to Antiretroviral Therapy of HIV/AIDS patients in China: A system review and meta-analysis

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Review question / Objective: Adherence to Antiretroviral Therapy of HIV/AIDS patients in China.

Condition being studied: There are enough studies that ART adherence of HIV/AIDS patients in Chinese province, but no study has performed a system review and meta-analysis of adherence level in China.

Information sources: Relevant studies were identified by searching the CNKI, WANFANG, CMJD, CBM, PubMed, Cochrane Library and EMBASE database, which spans the years from the establishment of database to July 2020 for all Chinese or English-languages.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 13 June 2020 and was last updated on 13 June 2020 (registration number INPLASY202060044).

INTRODUCTION

Review question / Objective: Adherence to Antiretroviral Therapy of HIV/AIDS patients in China.

Condition being studied: There are enough studies that ART adherence of HIV/AIDS patients in Chinese province, but no study

has performed a system review and meta-analysis of adherence level in China.

METHODS

Participant or population: HIV/AIDS patients in China.

Intervention: Good adherence.

Comparator: poor adherence.

Study designs to be included: Prospective study, retroprospective study, cross-sectional study.

Eligibility criteria: Studies assessing adherence rates as a primary or secondary outcome in general HIV populations in China.

Information sources: Relevant studies were identified by searching the CNKI、WANFANG、CMJD、CBM、PubMed、Cochrane Library and EMBASE database, which spans the years from the establishment of database to July 2020 for all Chinese or English-languages.

Main outcome(s): Adherence rates.

Additional outcome(s): The related risk factors such as age, sex, course, works and drugs et al.

Quality assessment / Risk of bias analysis: The Newcastle-Ottawa Scale (NOS) is used for assessing the quality of case-control study, Agency for Healthcare Research and Quality (AHRQ) is used for assessing the quality of cross-sectional study.

Strategy of data synthesis: We use Review Manager 5.3 software to make a meta-analyze. I² value is used to evaluate the heterogeneity of the included study. If the heterogeneity between the studies is small, the fixed-effect model is used to calculate the amount of combined effect; if there is obvious heterogeneity between the studies, the random-effect model is used to analyze the combined effect and the source of heterogeneity. P value is used to evaluate whether the results are statistically significant. When P value is less than 0.05, it is considered that there is significant statistical difference. When P value is greater than 0.05, it is considered that there is no significant statistical difference in the results. For binary variable, the relative risk (RR) was used as the efficacy evaluation index; for continuous variables, the mean difference (MD) index was used; both were

expressed by 95% confidence interval (95% CI). Funnel plots were used to assess report bias.

Subgroup analysis: Age, sex, course, works, drugs and so on.

Sensibility analysis: To exclude the excessive influence of any single study, we assessed whether exclusion of any single study substantially altered the magnitude or heterogeneity of the summary estimate.

Language: English.

Country(ies) involved: China.

Keywords: HIV/AIDS; ART; adherence; China; system review and meta analysis

Contributions of each author:

Author 1 - Zhuang Tao - Responsible for research implementation, data extraction and draft manuscript.

Author 2 - Xiaojie Huang - Responsible for research quality control.

Author 3 - Ying LIU - Responsibel for data extraction and quality assessment on literatures.

Author 4 - Jipeng Dong - Responsibel for data extraction and quality assessment on literatures.

Author 5 - Yang Zhao - Responsible for research implementation.

Author 6 - Jian Wang - Responsible for research quality control.