INPLASY PROTOCOL

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The relationship between montelukast use and neuropsychiatric events in patients with allergic rhinitis and/or asthma： A Systematic Review and Meta-Analysis

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Review question / Objective: **Neuropsychiatric events in patients with allergic rhinitis and/or asthma.**
Condition being studied: **Montelukast was used to treat patients with allergic rhinitis and/or asthma.**
Information sources: **MEDLINE, Embase, Web of Science databases and reference lists of the retrieved studies.**

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 01 December 2020 and was last updated on 01 December 2020 (registration number INPLASY2020120003).

INTRODUCTION

Review question / Objective: **Neuropsychiatric events in patients with allergic rhinitis and/or asthma.**

Condition being studied: **Montelukast was used to treat patients with allergic rhinitis and/or asthma.**

METHODS

Participant or population: **Montelukast was used to treat patients with allergic rhinitis and/or asthma.**

Intervention: **Montelukast.**

Comparator: **Placebo.**

Study designs to be included: Randomized controlled trials.

Eligibility criteria: (i) montelukast was used to treat patients with allergic rhinitis and/or asthma; (ii) randomized controlled trials; (iii) full text could be found online and published in English language; (iiii) the study provided available data for analysis.

Information sources: MEDLINE, Embase, Web of Science databases and reference lists of the retrieved studies.

Main outcome(s): The occurrence of neuropsychiatric adverse events

Quality assessment / Risk of bias analysis: Cochrane Risk of Bias Tool.

Strategy of data synthesis: STATA 12.0.

Country(ies) involved: China.

Keywords: meta-analysis, allergic rhinitis, asthma, montelukast, neuropsychiatric event.

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