

# INPLASY

## The effect of high temperature on dementia health outcome: A systematic review and meta-analysis

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### ADMINISTRATIVE INFORMATION

**Support** - School.

**Review Stage at time of this submission** - Formal screening of search results against eligibility criteria.

**Conflicts of interest** - None declared.

**INPLASY registration number:** INPLASY202610070

**Amendments** - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 20 January 2026 and was last updated on 20 January 2026.

## INTRODUCTION

**R**eview question / Objective The Effects of High Temperatures on Dementia.

**Condition being studied** Primarily includes Alzheimer's disease.

## METHODS

**Participant or population** All.

**Intervention** High temperature.

**Comparator** Comfortable temperature.

**Study designs to be included** case-crossover study and cohort study.

**Eligibility criteria** 1.No full text available. 2.Not English.

**Information sources** Embase / PubMed / Web of Science.

**Main outcome(s)** Mortality and hospital admissions.

**Quality assessment / Risk of bias analysis** Newcastle-Ottawa Scale (NOS)NOS.

**Strategy of data synthesis** Meta-analysis.

**Subgroup analysis** 1. Mortality and Hospital admissions; 2. Extreme Temperature and Heatwaves.

**Sensitivity analysis** Sensitivity analysis.

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**Language restriction** English.

**Country(ies) involved** China.

**Keywords** high temperature; dementia; alzheimer.

**Contributions of each author**

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