International Platform of Registered Systematic Review and Meta-analysis Protocols

INPLASY

INPLASY202480033

doi: 10.37766/inplasy2024.8.0033

Received: 06 August 2024

Published: 06 August 2024

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Stress hyperglycemia ratio and the prognosis of heart failure: a systematic review and meta-analysis

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ADMINISTRATIVE INFORMATION

Support - No support.

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

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202480033

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 06 August 2024 and was last updated on 06 August 2024.

INTRODUCTION

INPLASY

Review question / Objective Heart failure significantly impairs the quality of life and lays economic and societal burdens on families and societies. The stress hyperglycemia ratio (SHR) is a biomarker may be related to HF. Accordingly, we aim to investigate whether there is independent association between the SHR and the prognosis of HF.

Condition being studied Heart failure is a clinical syndrome characterized by cardinal symptoms such as breathlessness, ankle swelling and fatigue, along with signs like elevated jugular venous pressure, pulmonary crackles. The prevalence of HF is 1-3% in general adult population, affecting more than 64 million people worldwide.

METHODS

Participant or population Studies investigating the association of the SHR with the prognosis of HF will be addressed in the review.

Intervention None.

Comparator None.

Study designs to be included Cohort studies.

Eligibility criteria None.

Information sources Electronic databases.

Main outcome(s) All cause death, one-year mortality and death during hospitalization.

Quality assessment / Risk of bias analysis The funnel plots will be used to show the publication bias.

Strategy of data synthesis RevMan (Version 5.3; Cochrane Collaboration, Oxford, UK) and R [version 4.3.1] software was used to carry out statistical analysis and systematic evaluation.

Subgroup analysis None.

Sensitivity analysis None.

Country(ies) involved China.

Keywords Heart failure, Stress hyperglycemia ratio, Systematic review, Meta-analysis.

Contributions of each author

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