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Tissue perfusion parameter-guided initial resuscitation in adult patients with sepsis or septic shock: A systematic review and network meta-analysis

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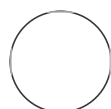
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ABSTRACT

Background: Hemodynamic management is crucial in treating patients with sepsis or septic shock. To date, several tissue perfusion parameters have been suggested, however; the optimal parameter is not well defined.

Objective: This study aims to examine whether and which tissue perfusion parameter-guided therapy during initial resuscitation in adult patients with sepsis or septic shock improved patients' outcomes.

Design: Systematic review and network meta-analysis.

Data sources: We will search the following electronic bibliographic databases: Cochrane Central Register of Controlled Trials (CENTRAL) in the Cochrane Library, MEDLINE via PubMed, Web of Science, and Igaku-Chuo-Zasshi. We will also search the World Health Organization International Clinical Trials platforms Search Portal (ICTRP) and ClinicalTrials.gov. for ongoing trials. There will be no language restriction.

Analysis: We will have two types of meta-analysis planned. First, direct pairwise meta-analysis will be conducted using random effect models. Second, network comparison meta-analysis will be conducted using a frequentist approach with multivariate random effect meta-analysis.

ATTACHMENTS

[Review protocol.pdf](#)