

INPLASY PROTOCOL

To cite: Li et al. Safety and Efficacy of Electroacupuncture Combined with General Anesthesia in Patient Undergoing Surgery: A protocol for a systematic review and meta-analysis. Inplasy protocol 202130111. doi: 10.37766/inplasy2021.3.0111

Received: 30 March 2021

Published: 31 March 2021

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Support: Self-paying.

Review Stage at time of this submission: Preliminary searches.

Conflicts of interest:
None declared.

Safety and Efficacy of Electroacupuncture Combined with General Anesthesia in Patient Undergoing Surgery: A protocol for a systematic review and meta-analysis

Li, S¹; Qi, L²; Xu, J³; Zhou, T⁴; Hu, C⁵; Zhang F⁶.

Review question / Objective: The purpose of this study was to evaluate and compare the safety and efficacy of electroacupuncture combined with general anesthesia versus general anesthesia in surgery.

Condition being studied: Acupuncture has a history of more than 2,500 years in China and has been used worldwide to relieve acute and chronic pain. The pain in surgical operation not only makes it difficult for patients to accept, but also brings difficulty and risk to surgical operation. It is a clinical task to find a safe and effective anesthesia method. Acupuncture can raise the pain threshold and its anesthetic effect is affirmed. Acupuncture anesthesia, as an auxiliary means, is widely used in surgery.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 31 March 2021 and was last updated on 31 March 2021 (registration number INPLASY202130111).

INTRODUCTION

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METHODS

Participant or population: Patients undergoing surgery, regardless of age, sex, race, education, or financial status.

Intervention: Electroacupuncture combined with general anesthesia.

Comparator: General anesthesia in surgery.

Study designs to be included: All randomized controlled trials.

Eligibility criteria: The inclusion criteria were as follows: (a) All randomized controlled trials were included; (b) Patients undergoing surgery, regardless of age, sex, race, education, or financial status; (c) the experimental group adopted electroacupuncture combined with general anesthesia, and the control group used general anesthesia; and (d) The language types are limited to English and Chinese.

Information sources: A search will be conducted in the MEDLINE, Cochrane Library, Embase, Web of Science, Wanfang Data, SinoMed, China Network Knowledge Infrastructure and VIP medicine information system.

Main outcome(s): Mortality at 30 days; Total Cardiovascular and Respiratory Complications; Intraoperative hypotension; duration of mechanical ventilation; Consciousness recovery time; Length of hospital stay; Sensitivity Analysis and Publication Bias.

Quality assessment / Risk of bias analysis: The risk of bias for this meta-analysis will be assessed according to the guidelines of The Cochrane Collaborations tool.

Strategy of data synthesis: Comprehensive Meta-Analysis statistical software containing Review Manager 5.3 and Stata14.

Subgroup analysis: Subgroup analysis was performed according to age and control interventions.

Sensitivity analysis: Sensitivity analyses will be performed using the one-study removed technique.

Country(ies) involved: China.

Keywords: Electroacupuncture; General Anesthesia; Surgery; meta-analysis.

Contributions of each author:

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