INPLASY

Greater occipital nerve block for the treatment of migraine: protocol for a network meta-analysis

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ADMINISTRATIVE INFORMATION

INTRODUCTION

Review question / Objective To compare the effectiveness of different blockade agents in greater occipital nerve (GON) block for relieving migraines.

Condition being studied Some randomized controlled trials have evaluated the effectiveness of GON block with intervention agents versus placebo, but no comprehensive meta-analysis currently exists that compares the effectiveness of different blockade agents.

METHODS

Search strategy MEDLINE, Embase, CENTRAL, and ClinicalTrials.gov were searchded for studies published before December 1, 2024. Various keywords were used: Greater Occipital Nerve block; migraine.

Participant or population Participants diagnosed with migraine.

Intervention GON block with local anesthetics and/or corticosteroids.

Comparator GON block with saline.

Study designs to be included RCT.

Eligibility criteria Comment, letters, reviews, retrospective studies, case reports, or case series.

Information sources MEDLINE, Embase, Cochrane, and clinicalTrials.gov.

Main outcome(s) VAS.

Additional outcome(s) Headache duration and headache days.

Quality assessment / Risk of bias analysis The risk of bias was assessed with Cochrane Collaboration's tool.

Strategy of data synthesis Stata (version 18.0) and R (version 4.3.3) were used. Statistically significant differences were considered at $P < 0.05$.

Subgroup analysis Not available.

Sensitivity analysis The I2 were used to explore heterogeneity. Random-effects model was used for I2 $\geq$ 50%. Fixed-effects model was used for I2 < 50%.

Language restriction English.

Country(ies) involved China.

Keywords Migraine; greater occipital nerve block; network meta-analysis.

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