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Comparative Efficacy and Safety Profiles of Non-ablative and Ablative Laser Therapies in the Treatment of Acne Scarring: A Systematic Review and Meta-analysis

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ADMINISTRATIVE INFORMATION

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

Conflicts of interest - None declared.

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Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 10 September 2023 and was last updated on 10 September 2023.

INTRODUCTION

Review question / Objective P: acne scar;I:non-ablative laser ;C:ablative laser.Comparative Efficacy and Safety Profiles of Non-ablative and Ablative Laser Therapies in the Treatment of Acne Scarring.

Condition being studied Acne scarring represents a ubiquitous dermatological challenge with considerable impact on both physical and psychological health. Despite the utilization of various laser therapies—including both ablative and non-ablative modalities—in ameliorating acne scars, a definitive assessment of their relative efficacy and safety remains elusive. This meta-analysis aims to rigorously evaluate and juxtapose the therapeutic outcomes and safety profiles of non-ablative versus ablative laser treatments for acne scarring.

METHODS

Participant or population Acne scar.

Intervention Non-ablative laser.

Comparator Ablative laser.

Study designs to be included Clinical trials or randomized controlled clinical trial.

Eligibility criteria (1) Study design: clinical trials; (2) Study population: patients presenting with acne scars; (3) Investigated interventions: non-ablative lasers; (4) Comparator: ablative lasers; and (5) Evaluated outcomes: clinical betterment, patient gratification, and the occurrence of adverse events.

Information sources PubMed, Embase, and Cochrane Library.

Main outcome(s) Clinical improvement.

Quality assessment / Risk of bias analysis Cochrane Handbook for Systematic Reviews of Interventions.

Strategy of data synthesis Stata 17 (StataCorp, College Station, Texas, USA.

Subgroup analysis Age, follow up duration.

Sensitivity analysis Stata 17 (StataCorp, College Station, Texas, USA.

Country(ies) involved China.

Keywords acne scar, laser therapy.

Contributions of each author
Author 1 - Ruonan Ke.
Author 2 - Beichen Cai.
Author 3 - Xuejun Ni.