

INPLASY

Efficacy and safety of biologics and small molecules inhibitors in treating genital psoriasis: A systematic review of randomized controlled trials

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ADMINISTRATIVE INFORMATION

Support - No.

Review Stage at time of this submission - Preliminary searches.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202440117

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 29 April 2024 and was last updated on 29 April 2024.

INTRODUCTION

Review question / Objective What is the efficacy and safety of biologics and small molecule inhibitors in treating patients with genital psoriasis?

P: Patients with genital psoriasis

I: Biologics and small molecule inhibitors

C: Placebo or another active intervention

O: Efficacy and adverse events

S: Randomized controlled trials.

Condition being studied Genital psoriasis is an irritating inflammatory skin condition that significantly affects both quality of life and sexual activity. There have been only a few studies documenting the effectiveness of related treatments. We aim to systematically review the latest evidence regarding the effectiveness of biological agents and small molecule inhibitors in treating patients with genital psoriasis.

METHODS

Search strategy 1. ("psoriasis"[MeSH Terms] OR "psoriasis"[All Fields] OR "psoriatic"[All Fields])
2. (((("genitalia"[MeSH Terms] OR "genitalia"[All Fields] OR "genital"[All Fields] OR "genitals"[All Fields] OR "genitally"[All Fields]) AND "penile"[All Fields]) OR "penis"[All Fields] OR "genital*"[All Fields] OR "glans"[All Fields] OR "scrotal"[All Fields] OR "scrotum"[All Fields] OR "anal"[All Fields] OR "diaper"[All Fields] OR "napkin"[All Fields] OR "shaft"[All Fields] OR "foreskin"[All Fields] OR "prepuce"[All Fields] OR "perianal"[All Fields] OR "vulva*"[All Fields] OR "labia"[All Fields] OR "labium"[All Fields] OR "groin"[All Fields] OR "preputial"[All Fields] OR "penoscrotal"[All Fields]))
3. (randomized controlled trial[Filter]) OR (randomized trial) OR (randomized study) OR (randomised trial) OR (randomised study) OR (random[title/abstract])
4. #1 AND #2 AND #3.

Participant or population Patients with genital psoriasis.

Intervention Biological agents and small molecule inhibitors.

Comparator Placebo or another active intervention.

Study designs to be included Randomized controlled trials.

Eligibility criteria The exclusion criteria involved trials with fewer participants (e.g., only one individual). Exclusion criteria included less participants in the trial (ex. only one person).

Information sources We searched electronic databases PubMed, Embase, and Cochrane Central Register of Controlled Trials for relevant studies from database inception to April 1st, 2024.

Main outcome(s) Efficacy (including response rate and clearance rate measure by sPGA-G) and Sexual function measurement (Genital Psoriasis Sexual Impact Scale (GPSIS) and Massachusetts General Hospital-Sexual Functioning Questionnaire (MGH-SFQ)).

Additional outcome(s) Adverse events.

Quality assessment / Risk of bias analysis Cochrane risk of bias tool (ROB 2.0).

Strategy of data synthesis We will conduct the analysis using the statistical package Review Manager, Version 5.4 (Cochrane Collaboration, Oxford, England).

Subgroup analysis We will conduct the subgroup analysis evaluating the efficacy of interventions based on different genders.

Sensitivity analysis We will assess efficacy by either excluding low-quality studies or adjusting characteristics such as age or gender.

Language restriction No.

Country(ies) involved Taiwan.

Keywords Genital psoriasis; biological agents; small molecule inhibitors; systematic review of randomized controlled trials.

Contributions of each author

Author 1 - Chien-Cheng Lai - Literature search, data extraction, quality assessment, and writing the first draft of the article.

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