# INPLASY

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Corresponding author:

Aditya Gupta

agupta@mediproberesearch.com

Author Affiliation: Mediprobe Research Inc.

# A comparison of therapeutic agents' short-term effects on actinic keratoses of the face and scalp: a protocol for a network meta-analysis study

Gupta, AK<sup>1</sup>; Bamimore, MA<sup>2</sup>; Wang, T<sup>3</sup>; Ravi, SP<sup>4</sup>; Talukder, M<sup>5</sup>; Haas-Neil, S<sup>6</sup>; Iorrizo, M<sup>7</sup>; Martin, G<sup>8</sup>; Piguet, V<sup>9</sup>.

## ADMINISTRATIVE INFORMATION

Support - None.

Review Stage at time of this submission - Data extraction.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202390086

**Amendments** - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 26 September 2023 and was last updated on 27 September 2023.

# INTRODUCTION

 $R^{\mbox{eview question / Objective}}_{\mbox{of the proposed study is to determine the relative effectiveness of existing therapies} for facial and scalp actinic keratoses.$ 

**Rationale** Numerous therapies exist for actinic keratosis, a pre-cancerous condition that can turn into malignancy if untreated. However, some of these therapies' relative effectiveness have not been determined in head-to-head trials. Hence, the proposed study attempts to determine such treatments' comparative effectiveness through network meta-analyses.

Condition being studied Actinic keratosis.

## METHODS

**Search strategy** Evidence for quantitative syntheses will obtained by: (1) systematically searching the peer-reviewed literature through

electronic databases (including PubMed), and (2) reference mining.

Participant or population Persons diagnosed with actinic keratoses.

**Intervention** Therapies (of any administrative route) used for treating actinic keratoses.

**Comparator** Vehicle, placebo or any other active comparator (i.e., any other therapy).

**Study designs to be included** Evidence for quantitative analyses will include data from randomized trials.

**Eligibility criteria** Data from studies published in a non-English language will be excluded.

**Information sources** Data for quantitative analyses will be obtained from relevant journal articles identified from electronic databases.

**Main outcome(s)** Our primary outcomes of interest are: (1) proportion of patients who achieved complete clearance within 12 weeks of therapy, (2) proportion of patients who achieved partial clearance within 12 weeks of therapy, and (3) arm-level clearance rate of lesions within 12 weeks of therapy.

Additional outcome(s) Our secondary outcome of interest will pertain to discontinuation of therapy due to any adverse event.

Quality assessment / Risk of bias analysis Quality of evidence will be assessed using Cochrane Collaboration's risk of bias (RoB) assessment tool.

**Strategy of data synthesis** The analyses plan for the proposed study will include an 'agentlevel' (i.e., main) analyses where agents with varying dosages will be collapsed into one node.

#### Subgroup analysis None.

**Sensitivity analysis** The results from main analyses will determine how the sensitivity analyses should proceed.

**Language restriction** Evidence in non-English language will be excluded.

### Country(ies) involved Canada.

**Keywords** actinic keratosis; network metaanalysis; scalp; face; efficacy.

#### **Contributions of each author**

- Author 1 Aditya Gupta.
- Author 2 Mary Bamimore.
- Author 3 Tong Wang.
- Author 4 Shruthi Ravi.
- Author 5 Mesbah Talukder.
- Author 6 Sandor Haas-Neil.
- Author 7 Matilde Iorizzo.
- Author 8 George Martin.
- Author 9 Vincent Piguet.