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Human Papillomavirus infection as a risk factor for Oral Leukoplakia- A systematic review and meta-analysis

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ADMINISTRATIVE INFORMATION

Support - Not applicable.
Review Stage at time of this submission - Piloting of the study selection process.
Conflicts of interest - None declared.
INPLASY registration number: INPLASY202540033
Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 10 April 2025 and was last updated on 10 April 2025.

INTRODUCTION

Review question / Objective Do patients with oral leukoplakia have a higher rate of HPV infection than normal oral mucosal controls.

Condition being studied Oral leukoplakia.

METHODS

Participant or population Human adults.

Intervention Leukoplakia.

Comparator Normal mucosa.

Study designs to be included Observational studies.

Eligibility criteria Case-control observational studies that assessed the prevalence of HPV in patients with oral leukoplakia specimens compared to controls were included.

Information sources PubMed, Scopus, and Wiley Library.

Main outcome(s) HPV infection rate.

Quality assessment / Risk of bias analysis New castle ottawa.

Strategy of data synthesis To calculate estimates of odds ratios and the corresponding 95% confidence intervals (CI). Subsequently, a pooled odds ratio (OR) estimate and its corresponding 95% confidence interval were computed using the random-effects model.

Subgroup analysis Population and PCR based.

Sensitivity analysis Removing studies with small sample size.

Country(ies) involved UAE.

Keywords Oral leukoplakia; HPV; OPMD; high risk HPV; premalignant.

Contributions of each author

Author 1 - Divya Gopinath.

Author 2 - Joud Taha.