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Photodynamic therapy on oral mucosa candidiasis responsible: An evidence base analysis

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ADMINISTRATIVE INFORMATION

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Review Stage at time of this submission - Preliminary searches.

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 22 July 2024 and was last updated on 22 July 2024.

INTRODUCTION

eview question / Objective How do PDT affect the clinical results in patients with OC diseases?

Does PDT application provide superior clinical microbial (Candida colony counts) improvement compared with conventional chemical therapies for the OC patient?

What was the rankings on the effect of PDTs in reducing candida colony counts and which one is more suitable for patients with OC diseases?

Condition being studied The follwing PICO framework was according to the Participants, Interventions, Control, and Outcome (PICOS) principle: i) Patients: patients diagnosed with OC diseases; ii) Intervention: for the test group, additional PDT or PDT alone.

METHODS

Search strategy #1Search: ((((photodynamic therapy) OR (PDT)) OR (photochemotherapy)) OR (photodynamic inactivation)) OR (photoinactivation)) OR (photo radiation therapy) #2 Search: (((candida) OR (monilia)) OR (candidiasis)) OR (fungi) #3 Search: (denture stomatitis) OR (oral) #4 Search: #1 AND #2 AND #3.

Participant or population Patients diagnosed with oral mucosa candidiasis diseases.

Intervention Photodynamic therapy.

Comparator Chemical therapies.

Study designs to be included Randomized controlled trails (RCTs) or cohort study.

Eligibility criteria Inclusion criteria were defined as: i) patients diagnosed with OC; ii) Patients treated by PDT or additional PDT compared to other conventional chemical therapies (CCT); iii) Studies describing clinical outcomes or microbial (Candida colony counts) improvement. Exclusion criteria were defined as: i) animal and in vitro studies; ii) duplicated data; iii) RCTs without any intervention (e.g. on prevalence); iv) dissertations that have not been peer reviewed or publicly published.

Information sources We searched relevant articles thought the Cochrane Library, Web of Science and PubMed databases.

Main outcome(s) Clinical outcomes or microbial (Candida colony counts) improvement.

Quality assessment / Risk of bias analysis Using the Cochrane Collaboration tool's in Review Manager software (version 5.0 for Windows) and Newcastle Ottawa scale (NOS).

Strategy of data synthesis RRs with 95% Cls presented the estimated effects for dichotomous outcomes. The I2 statistic were performed to estimate between-study heterogeneity.

Subgroup analysis Perform subgroup analysis if necessary.

Sensitivity analysis When more than 8 studies were included.

Country(ies) involved China.

Keywords photodynamic therapy; chemical therapy; oralcandidiasis.

Contributions of each author

Author 1 - Yao Lin. Author 2 - Xuying zhen. Author 3 - Yufu He. Author 4 - Manting Zhang. Author 5 - zipeng Liao. Author 6 - Qinghua Liu. Author 7 - Junbing He.