INPLASY

Temporal variation in oral microbiome composition of head and neck cancer patients undergoing chemo or radio therapy: A systematic review

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ADMINISTRATIVE INFORMATION

Support - Ajman University.

Review Stage at time of this submission - Preliminary searches.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202510125

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 31 January 2025 and was last updated on 31 January 2025.

INTRODUCTION

Review question / Objective Is there a change in the oral microbiome in head and neck cancer patients undergoing chemo or radio therapy after treatment?

Condition being studied Head and neck cancer patients undergoing chemo or radiotherapy.

METHODS

Participant or population P: patients diagnosed with cancer who receive chemotherapy or radiotherapy or combined.

Intervention Oral microbiome profile after treatment.

Comparator Oral microbiome profile before treatment.

Study designs to be included Observational / Cohort study.

Eligibility criteria Any study on adult HNSCC cases treated with chemo or radio or combine reporting pre and post changes in oral microbiome.

Information sources Pubmed, Scopus and Cochrane database.

Main outcome(s) Changes in microbiome diversity and abundance.

Quality assessment / Risk of bias analysis New castle ottawa scale.

Strategy of data synthesis Data will be analyzed qualitatively.

Subgroup analysis Not planned at the moment as the data will be more qualitiative.

Sensitivity analysis Not applicable.

Language restriction English.

Country(ies) involved UAE, India, Canada.

Keywords Oral microbiome; Chemoradiotherapy; radiotherapy; chemotherapy; HNSCC; oral cancer.

Dissemination plans Publish in a journal.

Contributions of each author
Author 1 - Divya Gopinath.
Author 2 - Asma Wajih.