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Mouth sores from dentures in older adults in the UAE: how common are they and what causes them

Submission date 17/12/2024	**Recruitment status** No longer recruiting	[_] Prospectively registered [_] Protocol [_] Statistical analysis plan [_] Results [_] Individual participant data [X] Record updated in last year
Registration date 28/12/2024	**Overall study status** Completed	
Last Edited 02/07/2026	**Condition category** Oral Health	

Plain English summary of protocol

Background and study aims
Denture stomatitis refers to sores that form on the soft tissues of the mouth, often affecting people who wear removable dentures. These sores can appear as small, isolated sore spots, larger red patches, or even areas of soft tissue growth, commonly on the roof of the mouth. The goal of this study is to find out how common denture stomatitis is among older adults in the UAE who wear removable dentures. In addition, the study will look at which factors may lead to the development or worsening of these sores. By better understanding this condition, we hope to help health officials plan ways to prevent and manage it more effectively.

Who can participate?
Men and women who are 50 years of age or older, who have been wearing removable dentures for at least 1 year

What does the study involve?
If you choose to participate, you will have a standard dental examination of your mouth using a simple mouth mirror and a dental explorer. You will also be asked to complete a brief questionnaire about your general health, dental and denture history, and oral hygiene habits.

What are the possible benefits and risks of participating?
There are no known risks to participating in this study. Although you will not receive any direct personal benefit, the information we gather will be valuable to the community. It will help us understand how common these sores are and what causes them, and in turn, assist government health agencies in developing plans to manage and prevent this condition in the future.

Where is the study run from?
Ras Al Khaimah Specialized Dental Center (United Arab Emirates)

When is the study starting and how long is it expected to run for?
May 2023 to June 2025

Who is funding the study?
Investigator initiated and funded

Who is the main contact?
Dr Nabeel Alsabeeha, dr.nabeel@yahoo.com

Contact information

Type(s)
Public, Scientific, Principal investigator

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Additional identifiers

Protocol serial number
MOHAP/DXB-REC/ J.J.J /No.78 / 2023

Study information

Scientific Title
Denture stomatitis in older adult population in the United Arab Emirates: a cross-sectional study on prevalence and associated risk factors

Study objectives
What is the prevalence rate of denture stomatitis among older adult denture wearers in the UAE, and what are its associated risk factors?

Ethics approval required
Ethics approval required

Ethics approval(s)
Approved 21/06/2023, Ministry of Health and Prevention Research Ethics Committee (Muhaisna 2, SMBZ Road, Dubai, PO Box 3071, United Arab Emirates; +971 (0)8001111; info@mohap.gov.ae), ref: MOHAP/DXB-REC/ J.J.J /No.78 / 2023

Primary study design

Observational

Study design
Observational cross-sectional study

Study type(s)
Diagnostic, Screening

Health condition(s) or problem(s) studied
Denture stomatitis

Interventions
A sample of older adults (aged >50 years) will be clinically examined for the presence of denture stomatitis. Additionally, each participant will be required to fill up a structured questionnaire to collect relevant information including demographic data, medical and dental histories, habits, and denture history, usage and hygiene. The participant's existing denture will also be examined to evaluate its quality based on standard criteria.

Intervention Type
Other

Primary outcome(s)
The prevalence rate of denture stomatitis in the target population, determined by direct clinical examination to identify the affected individual and the type of condition. Measured at a single timepoint for each participant.

Key secondary outcome(s)
Risk factors for denture stomatitis determined from medical history and structured questionnaires. Measured at a single timepoint for each participant.

Completion date
30/06/2025

Eligibility

Key inclusion criteria
1. Male or female patients 50 years and above
2. Wearing removable partial and/or complete dentures for at least 1 year
3. Willing to comply with research visits and follow-up as needed
4. Able to provide informed consent

Participant type(s)
Patient, Service user

Healthy volunteers allowed
No

Age group
Mixed

Lower age limit
50 Years

Upper age limit
90 Years

Sex
All

Total final enrolment
0

Key exclusion criteria
1. Patients with denture use of less than 1 year
2. Patients under radiotherapy or immunosuppressive medications
3. Patients with mental illness or drug abuse
4. Patients unable to provide informed consent

Date of first enrolment
23/12/2024

Date of final enrolment
30/06/2025

Locations

Countries of recruitment
United Arab Emirates

Study participating centre
RAK Specialized Dental Center
18 Al Mashfa Street, Al Juwais
Ras Al Khaimah
United Arab Emirates
PO Box 3071

Sponsor information

Organisation
Ministry of Health and Prevention

Funder(s)

Funder type
Other

Funder Name
Investigator initiated and funded

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not expected to be made available