

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

An investigation on matrix metalloproteinase 9 variation in erosive oral lichen planus before and after treatment by triamcinolone mouthwash

Protocol summary

Summary

lichen planus is chronic, recurrent and mucocutaneous disease with unknown cause that destruction of basement membrane in this disease occurs by some proteinases like matrix metalloproteinases (MMPS). Because of many studies existence for MMP-9 elevation in oral malignant and premalignant lesions like lichen planus, we decided to investigate variation trends of MMP-9 before and after treatment by triamcinolone mouthwash in patients with erosive oral lichen planus. Current study will be done at Shahid Beheshti oral and maxillofacial department and biology laboratory in 4 stages: First stage (case selection): 20 patients with erosive oral lichen planus that approved by clinical and histological criteria (without any cutaneous lesions, contact or drug induced lichenoid reactions) and referred to Shahid Beheshti oral and maxillofacial department will be selected. Second stage (patient's saliva gathering): that will be done by Navazesh technique. Third stage: intervention treatment by triamcinolone mouthwash (that is formulated in 1 cc triamcinolone vial in 19 cc distilled water) for 4 times daily after meals. Forth stage: saliva gathering after treatment, by Navazesh technique and will be sent to biology lab for measuring MMP-9 by ELISA technique.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016071728963N1**

Registration date: **2016-11-11, 1395/08/21**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-11-11, 1395/08/21

Registrant information

Name

Marziye Sehatpour

Name of organization / entity

Shahid Beheshti dental college

Country

Iran (Islamic Republic of)

Phone

+98 22433909

Email address

marziye.sehatpour@sbmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2016-09-22, 1395/07/01

Expected recruitment end date

2017-05-22, 1396/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

An investigation on matrix metalloproteinase 9 variation in erosive oral lichen planus before and after treatment by triamcinolone mouthwash

Public title

Matrix metalloproteinase 9 variation in erosive oral lichen planus before and after treatment

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: Patients with erosive oral lichen planus with clinical and pathological confirmation whom need

treatment. Exclusion criteria: Cutaneous lichen planus;
Drug lichenoid reaction; Contact lichenoid reaction.

Age

From **20 years** old to **70 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee of Shahid Beheshti University of
Medical Science

Street address

Araabi st, Daneshjoo blvd, Evin, Tehran

City

Tehran

Postal code**Approval date**

2016-03-07, 1394/12/17

Ethics committee reference number

IR.SBMU.RIDS.REC.1394.186

Health conditions studied**1****Description of health condition studied**

erosive oral lichen planus

ICD-10 code

L43.8

ICD-10 code description

Other lichen planus

Primary outcomes**1****Description**

Matrix metalloproteinase 9

Timepoint

before and after treatment

Method of measurement

ELIASA technique

Secondary outcomes

empty

Intervention groups**1****Description**

Treatment will be done by triamcinolone mouthwash(that is formulated 1 cc triamcinolone vial in 19 cc distilled water) for 4 times daily after meals.

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Shahid Beheshti dental college, Oral and maxillofacial
medicine department

Full name of responsible person

Dr Jamile Bigom Taheri

Street address

Oral and maxillofacial medicine department, Shahid
Beheshti dental college, Daneshjoo blvd, Evin

City

Tehran

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice Chancellor for research of Shahid Beheshti
University of Medical Science

Full name of responsible person

Dr Afshin Zarghi

Street address

Research and Technology center, Shahid Beheshti
university of medical science, Araabi st, Daneshjoo
blvd, Evin, Tehran

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice Chancellor for research of Shahid Beheshti
University of Medical Science

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Shahid Beheshti dental college

Full name of responsible person

Dr Jamile Bigom Taheri

Position

professor

Other areas of specialty/work

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Person responsible for updating data

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Name of organization / entity

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Full name of responsible person

Dr Marziye Sehatpour

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Resident at oral and maxillofacial medicine
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty

Person responsible for scientific inquiries

Contact

Name of organization / entity

Oral and maxillofacial medicine department, Shahid
Beheshti dental college

Full name of responsible person

Dr Jamile Bigom Taheri

Position

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Other areas of specialty/work

Street address