Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

An investigation on matirx 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
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Iran (Islamic Republic of)
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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 matirx 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

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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

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Position

professor

Other areas of specialty/work

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Web page address

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