

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 May 2026

Study the effect of intravenous injection of dental pulp mesenchymal stem cells in treatment of patients with COVID-19 pneumonia

Protocol summary

Study aim

Investigation the effect of intravenously injection of dental pulp mesenchymal stem cells in treatment of patients with pneumonia of COVID19 virus

Design

Clinical trial without control group, community based, not blinded, Non-randomised controlled study

Settings and conduct

This study is about infectious diseases. The location is Afzalipour Hospital and Stem Cell and regenerative medicine Comprehensive Cener of Kerman University of Medical Sciences. After the patient is selected by the physician, the dental pulp mesenchymal stem cells are injected intravenously at one time. Results are evaluated 14 and 28 days after injection.

Participants/Inclusion and exclusion criteria

A- Inclusion Criteria: -Patients aged between 18-95 years
- Patients Approved for Covirus 19 by Laboratory Methods -Presence of Corona virus pneumonia B- Exclusion Criteria: - Patients undergoing other clinical trials -Patients who are resistant to routine treatment

Intervention groups

Dental pulp mesenchymal stem cells are injected into the patient at one time and followed for 14 and 28 days.

Main outcome variables

Pulmonary condition, RNA expression of COVID19 virus, Lymphocytes count, Study of clinical signs

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20140911019125N6**

Registration date: **2020-04-04, 1399/01/16**

Registration timing: **registered_while_recruiting**

Last update: **2020-04-04, 1399/01/16**

Update count: **0**

Registration date

2020-04-04, 1399/01/16

Registrant information

Name

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 32 24618

Email address

afarsinejad@kmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-04-04, 1399/01/16

Expected recruitment end date

2020-10-07, 1399/07/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study the effect of intravenous injection of dental pulp mesenchymal stem cells in treatment of patients with COVID-19 pneumonia

Public title

The effect of dental pulp mesenchymal stem cells in treatment of corona disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients aged between 18-95 years Patients Approved

for Covirus 19 by Laboratory Methods

Exclusion criteria:

Patients undergoing other clinical trials Patients with standard and routin treatments show progress in clinical signs

Age

From **18 years** old to **95 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **10**

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 Kerman University of Medical Sciences

Street address

Kerman university of medical science, Haft Bagh Blvd, Kerman, Iran

City

Kerman

Province

Kerman

Postal code

7616911333

Approval date

2020-02-24, 1398/12/05

Ethics committee reference number

IR.KMU.REC.1399.018

Health conditions studied

1

Description of health condition studied

Corona virus disease

ICD-10 code

U07.1

ICD-10 code description

COVID19, virus identified

Primary outcomes

1

Description

Pulmonary Condition

Timepoint

Before intervention and 14, 28 days after intervention

Method of measurement

CT scan

2

Description

Expression of nucleic acid of virus

Timepoint

Before intervention and 14 and 28 days after intervention

Method of measurement

real time PCR

3

Description

Lymphocytes count

Timepoint

Before intervention and 14 and 28 days after intervention

Method of measurement

Flowcytometry

4

Description

Patients clinical signs

Timepoint

before intervention and 14 and 28 days after intervention

Method of measurement

Observation

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: The extracted tooth is brought to the lab . After tooth extraction, it is enzymatically digested and cultured. After the cells have reached the required level, 40 million cells are injected intravenously at one time. Patients receive common medications at the same time.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Afzalipour Hospital

Full name of responsible person

Mehrdad Farrokhnia

Street address

Imam Khomeini Highway, Afzali pour Hospital,
Kerman, Iran

City

Kerman

Province

Kerman

Postal code

7616913911

Phone

+98 34 3132 8000

Email

Mehrdad_farrokhnia@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Abbas Pardakhty

Street address

Kerman university of medical science, Haft Bagh Blvd,
Kerman, Iran

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Email

abpardakhty@kmu.ac.ir

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

Yes

Title of funding source

Kerman University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Alireza Farsinejad

Position

Associate Professor

Latest degree

Ph.D.

Other areas of specialty/work

Hematology

Street address

Paramedical college, Kerman university of medical
science, Haft Bagh Blvd, Kerman, Iran

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Phone

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Email

afarsinejad@kmu.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Alireza Farsinejad

Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

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Person responsible for updating data

Contact

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Kerman University of Medical Sciences

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no additional data.

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

In our study none of the personal data of patients will be shared. Only data that are related to outcomes of intervention will be shared.

When the data will become available and for how long

Starting 6 months after publication

To whom data/document is available

The data will be available for people working in academic institutions and clinicians.

Under which criteria data/document could be used

Applicants are only allowed to use received data in clinical and they are not allowed to publish them

From where data/document is obtainable

1- Phone: 034-31325374 2- e-mail:

afarsinejad@kmu.ac.ir 3- Fax: 034-31325375 4- address:

Haft bagh Blvd, Kerman university of medical science Dr.

Alireza Farsinejad

What processes are involved for a request to access data/document

Applicant can receive information after contact and send e-mail up to 10 days.

Comments