Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 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

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7616913911

Phone
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Mehrdad_farrokhnia@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Kerman University of Medical Sciences

Full name of responsible person
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Kerman university of medical science, Haft Bagh Blvd, Kerman, Iran

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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

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Person responsible for scientific inquiries

Contact

Name of organization / entity
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Person responsible for updating data

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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 non 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 published 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