Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

comparison of effect of PRP and Micro-needling with micro-needling alone in the treatment of Vitiligo

Protocol summary

Study aim
comparison of effect of PRP and Micro-needling with micro-needling alone in the treatment of Vitiligo

Design
A total 10 patients with vitiligo were enrolled for a prospective open pilot study

Settings and conduct
In this study 10 patients were chosen from the clinic of skin and stem cell research center of Tehran University of medical science being diagnosed with stable Non-segmental vitiligo for ages fifteen to sixty years old. 3 patches are selected from each individual .the first patches Micro-needling then PRP and second patches Micro-needling alone would be performed. The third patches is control .this procedure is repeated every two weeks for maximum 3 month in 6 sessions.in the end ,in order to evaluate the findings of this study the vitiligo European task factor (VETF) score ,Biometry ,Colorimetry and photography will be used to assess effectiveness of the study.

Participants/Inclusion and exclusion criteria
Inclusion criteria: patients with stable non segmental vitiligo,ages between 15 and 60 Exclusionary criteria: pregnancy, lactation, HIV infection, active vitiligo, infection in the recipient site, hepatitis, history of Keloid healing, history of Kobner phenomenon

Intervention groups
Patche number (1) Micro-needling then Intradermal PRP injection would be performed. . this procedur was repeated every 2 week for maximum 3 month(6 session) patches number(2)Micro-needling alone would be performed. this procedur was repeated every 2 week for maximum 3 month(6 session) patches number 3 was control.

Main outcome variables
Repgmentation of vitiligo patch

General information

Reason for update

Acronym
PRP(platelet Rich Plasma)

IRCT registration information
IRCT registration number: **IRCT20160813029327N9**
Registration date: **2018-05-14, 1397/02/24**
Registration timing: **retrospective**

Last update: **2018-05-14, 1397/02/24**
Update count: **0**

Registration date
2018-05-14, 1397/02/24

Registrant information

Name
Ramin Abrishami

Name of organization / entity
Islamic Azad University, Pharamceutical sciences branch

Country
Iran (Islamic Republic of)

Phone
+98 21 2264 1889

Email address
r_abrishami@iaups.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2017-10-01, 1396/07/09

Expected recruitment end date
2018-04-21, 1397/02/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date

empty

Scientific title
comparison of effect of PRP and Micro-needling with micro-needling alone in the treatment of Vitiligo

Public title
Effect of Platelet Rich Plasma with Micro –needling in Regimentation of Vitiligo
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
patients with stable non segmental vitiligo ages between 15 and 60 depigmented patches more than 2cm
Exclusion criteria:
Age
From **15 years** old to **60 years** old
Gender
Both

Phase
N/A
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
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics Committee of Islamic Azad University of Pharmaciutical Science
Street address
Islamic Azad university of Pharmaciutical Science, Yakhchal Street, Shariati Street, Tehran, Iran
City
Tehran
Province
Tehran
Postal code
6466_19395
Approval date
2017-01-05, 1395/10/16
Ethics committee reference number
IR.IAUREC.1395.44

Health conditions studied

1

Description of health condition studied
Vitiligo
ICD-10 code
L80
ICD-10 code description
Disorders of pigmentation

Primary outcomes

1

Description
repigmentation
Timepoint
befor session 1 and one month after session six
Method of measurement
Biometry and calorimetry and photoraphy

Secondary outcomes

1

Description
Quality of life
Timepoint
Before of first session of treatment and one month after of last session
Method of measurement
Dermatology life quality index

Intervention groups

1

Description
Intervention group 1 :) Micro-needling and intradermal PRP injection
Category
Treatment - Other

2

Description
Intervention group 2 :) Micro-needling
Category
Treatment - Other

3

Description
Control group: there was no intervention
Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Skin and Stem Cell Research Center Of Tehran University Of Medical Science

Full name of responsible person
Parvin Mansouri

Street address
No 4,Maryam Alley, South Kamraniyeh Street

City
Tehran

Province
Tehran

Postal code
8164635597

Phone
+98 21 2220 1710

Email
mansouripr@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
Parvin Mansouri

Street address
No 4,Maryam Alley, South Kamraniyeh Street, Tehran, Iran

City
Tehran

Province
Tehran

Postal code
8164635597

Phone
+98 21 2220 1710

Email
mansouripr@yahoo.com

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?
Yes

Title of funding source
Tehran 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
Islamic Azad University

Full name of responsible person
Shaylan kalavi

Position
student

Latest degree
A Level or less

Other areas of specialty/work
Medical Pharmacy

Street address
Islamic Azad university of Pharmaciutical Science, Yakhchal Street, Shariati Street

City
Tehran

Province
Tehran

Postal code
6466_19395

Phone
+98 21 2264 0056

Email
shaylan.k.sk@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
Parvin Mansouri

Position
Professor

Latest degree
Specialist

Other areas of specialty/work
Dermatology

Street address
No 4,Maryam Alley, South Kamraniyeh Street

City
Tehran

Province
Tehran

Postal code
8164635597

Phone
+98 21 2220 1710

Email
mansouripr@yahoo.com

Person responsible for updating data

Contact

Name of organization / entity
Islamic Azad University

Full name of responsible person

Mehdi Rajabi
Position
Associate professor
Latest degree
Ph.D.
Other areas of specialty/work
Medical Pharmacy
Street address
Islamic Azad University Of Pharmaciutical Science, Yakhchal Street, Shariati Street
City
Tehran
Province
Tehran
Postal code
6466_19395
Phone
+98 21 2264 0056
Email
Mehdirj@aol.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)
Undecided - It is not yet known if there will be a plan to make this available
Study Protocol
Undecided - It is not yet known if there will be a plan to make this available
Statistical Analysis Plan
Undecided - It is not yet known if there will be a plan to make this available
Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
Undecided - It is not yet known if there will be a plan to make this available
Analytic Code
Undecided - It is not yet known if there will be a plan to make this available
Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available