Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation and outcome of new surgical and chemical techniques in treatment of onychogryphosis according to thickness and axis of the new nail

Protocol summary

Study aim

To evaluate the definitive treatment of onychogryphosis without damaging the matrix and preserving the nail unit.

Design

This study was conducted on patients who were diagnosed with onychogryphosis by a dermatologist and had been referred to the dermatology clinic during the period from 2013 to 2019 and were candidated for reform nail unit surgery.

Settings and conduct

This study was designed as an interventional with no control group and the operation was done at the Dermatology Clinic of Rasoul-e-Akram Hospital (outpatient operating room). After taking necessary tests and scheduling surgery time, patients were referred for surgery. After radiologic studies of involved great toe to exclude exostosis, Surgery performed on patients. The new technique was designed for onychogryphotic toe nail by combination of partial nail matrix phenolization, nail bed widening by longitudinal cuts in the nail bed,onycholysis treatment and displacing the nail matrix and nail bed to opposite direction of nail deviation.

Participants/Inclusion and exclusion criteria

Individuals with onychogryphosis who have not responded to conservative treatments are included in the study. Patients with peripheral vascular disorders or uncontrolled diabetes were excluded from the current study. .

Intervention groups

After radiologic studies of involved great toe to exclude exostosis, Surgery performed on patients who do not respond to conservative treatments and complain of pain and inability to nail trimming.

Main outcome variables

At 6, 12 and 18 months postoperatively, the following evaluations were performed: thickness of new nail plate and axis deviation was measured by caliper

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20150529022468N4**
Registration date: **2018-02-20, 1396/12/01**
Registration timing: **registered_while_recruiting**

Last update: **2018-02-20, 1396/12/01**
Update count: **0**

Registration date

2018-02-20, 1396/12/01

Registrant information

Name
Mohammadreza Ghassemi
Name of organization / entity
Iran University of Medical Scienses
Country
Iran (Islamic Republic of)
Phone
+98 21 6650 2040
Email address
ghassemi.mr@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Rasool-e-akram hospital

Expected recruitment start date

2011-04-21, 1390/02/01

Expected recruitment end date

2018-03-20, 1396/12/29

Actual recruitment start date

empty

Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Evaluation and outcome of new surgical and chemical techniques in treatment of onychogryphosis according to thickness and axis of the new nail

Public title
A new technique for management of onychogryphosis
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Clinical diagnosis of onychogryphosis No response to conservative treament
Exclusion criteria:
Peripheral blood disorder Not controlles Diabetes mellitus
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **30**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features
considering the lack of similar study and very low incidence of this disease, the study was designed as pilot study.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethic’s committee of Iran university of medical science
Street address
Shahid Hemmat Highway .Tehran.
City
Tehran
Province
Tehran
Postal code
1449614535
Approval date
2017-05-01, 1396/02/11
Ethics committee reference number
IR.IUMS.REC 1395.95-04-204-29968

Health conditions studied

1

Description of health condition studied
onychogryphosis
ICD-10 code
L60.2
ICD-10 code description
Onychogryphosis

Primary outcomes

1

Description
Nail deviation from longitudinal axis
Timepoint
before intervenyion, 6, 12 and 18 months following end of treatment
Method of measurement
millimetre

Secondary outcomes

1

Description
Nail plate thickness
Timepoint
Before intervention, 6, 12 and 18 months following end of treatment
Method of measurement
Millimetre

Intervention groups

1

Description
combination of partial nail matrix phenolization, nail bed widening by longitudinal cuts in the nail bed,onycholysis treatment and displacing the nail matrix and nail bed to opposite direction of nail deviation.
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center

Rasool-e-akram hospital

Full name of responsible person

Mohammad reza Ghassemi

Street address

Rasool-e-akram hospital, Niayesh street, sattarkhan street, tehran.

City

Tehran

Province

Tehran

Postal code

1445613131

Phone

+98 21 6435 2528

Email

Mohammadreza.ghassemi@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor of research, Iran university of medical sciences

Full name of responsible person

Mehrdad sheykhvatan

Street address

Hazrat-e Rasool General Hospital, Niyayesh St., Satarkhan St., Tehran, Iran

City

Tehran

Province

Tehran

Postal code

1445613131

Phone

+98 21 6651 4001

Email

Ghassemi.mr@iums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor of research, Iran 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

Iran university of medical sciences

Full name of responsible person

Mohammadreza ghassemi

Position

Assistant professor

Latest degree

Specialist

Other areas of specialty/work

Street address

Rasool-e-akram hospital

City

Tehran

Province

Tehran

Postal code

1445613131

Phone

+98 21 6435 2421

Fax

Email

Mohammadreza.ghassemi@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Iran university of medical sciences

Full name of responsible person

Mohammadreza ghassemi

Position

Assistant professor

Latest degree

Specialist

Other areas of specialty/work

Street address

Hemmat highway

City

Tehran

Province

Tehran

Postal code

1449614535

Phone

+98 21 6435 2421

Fax

Email

Mohammadreza.ghassemi@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Iran university of medical sciences

Full name of responsible person

Mohammadreza ghassemi

Position
Assistant professor
Latest degree
Specialist
Other areas of specialty/work
Street address
Hemmat highway
City
Tehran
Province
Tehran
Postal code
1449614535
Phone
+98 21 6435 2421
Fax
Email
Mohammadreza.ghassemi@yahoo.com
Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is 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
Yes - There is 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
Yes - There is a plan to make this available
Analytic Code
Yes - There is a plan to make this available
Data Dictionary
Yes - There is a plan to make this available
Title and more details about the data/document
IPD collected for the last outcome measure only
When the data will become available and for how long
Starting 2 years after publication
To whom data/document is available
Only available for people working in academic institutions
Under which criteria data/document could be used
People who want to do research on the treatment of these types of patients will be able to obtain more information through a referral to the coresponder of the article
From where data/document is obtainable
Mohammadreza ghassemi
Mohammadreza.ghassemi@yahoo.com
What processes are involved for a request to access data/document
After reviewing the requests and identifying the goals of the applicant he will be given the information he has requested at the first opportunity
Comments