

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Jul 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 candidates 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 Rasool-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 Sciences

##### 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 treatment

**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**

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**Position**

Assistant professor

**Latest degree**

Specialist

**Other areas of specialty/work****Street address**

Hemmat highway

**City**

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**Province**

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**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**