

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Evaluation of vitamin C consumption efficacy in prevention of Sudeck atrophy in patients with distal radius fracture

#### Protocol summary

##### Summary

Aim of Study: Evaluation of vitamin C efficacy in prevention of Sudeck atrophy a randomized, double-blind, placebo-controlled, single center The study population: Inclusion criteria: People over 18 years with closed distal radial fractures (type 1) Exclusion criteria: Open fractures, closed fractures of type 2 and 3, bilateral fractures, other broken bones and other associated illnesses such as diabetes, neuropathy, and ...  
Sample:144 Patients In randomized study were given vitamin C to 72 patients and placebo to 72 others patients Intervention time: In fracture days giving vitamin C to 72 cases and placebo to 72 other patients. The patients, respectively, after one week, 4 weeks, 6 weeks (when the plaster is open), once a month, and finally at the end of the six months that is end of clinical trial ended to be reviewed and interviewed. Primary outcome or outcomes studied: Clinical judgment based on 4 or 5 of the following Osteoporosis localized edema, hirsutim or loss of hair area with pain, temperature changes, limiting movement, color changes, hypersensitivity, tremors, involuntary movements, muscle spasms.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013020311898N3**  
Registration date: **2013-08-04, 1392/05/13**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2013-08-04, 1392/05/13

##### Registrant information

##### Name

Ahmadreza Mirbolouk

##### Name of organization / entity

Guilan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 13 1322 2250

##### Email address

ah.mirbolouk@gums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Guilan University of Medical Sciences

##### Expected recruitment start date

2013-02-19, 1391/12/01

##### Expected recruitment end date

2014-02-20, 1392/12/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Evaluation of vitamin C consumption efficacy in prevention of Sudeck atrophy in patients with distal radius fracture

##### Public title

The effect of vitamin C in preventing Sudeck atrophy

##### Purpose

Prevention

##### Inclusion/Exclusion criteria

Inclusion criteria: People over 18 years with closed distal radial fractures (type 1) Exclusion criteria: Open fractures, closed fractures of type 2 and 3, bilateral fractures, other broken bones and other associated illnesses such as diabetes, neuropathy, and ...

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: **144**

**Randomization (investigator's opinion)**

Randomized

**Randomization description****Blinding (investigator's opinion)**

Double blinded

**Blinding description****Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Guilan University Of Medical Sciences

**Street address**

Central Building of Guilan University of Medical Sciences, Opposite the Azodi Stadium, Namjoo Street

**City**

Rasht

**Postal code****Approval date**

2012-04-26, 1391/02/07

**Ethics committee reference number**

1910051501

**Health conditions studied****1****Description of health condition studied**

sudeck atrophy

**ICD-10 code**

M89.0

**ICD-10 code description**

Algoneurodystrophy

**Primary outcomes****1****Description**

Sudeck atrophy

**Timepoint**

After one week, 4 weeks, 6 weeks (when the plaster is open), once a month, and finally at the end of the six months

**Method of measurement**

Clinical judgment based on 4 or 5 of the following Osteoporosis localized edema, hairy or capillary area filled with pain, temperature changes, limiting movement, color changes, hypersensitivity, tremors, involuntary movements, muscle spasms.

**Secondary outcomes**

empty

**Intervention groups****1****Description**

fifty 500mg placebo tablets daily

**Category**

Treatment - Drugs

**2****Description**

fifty 500mg Vitamin c tablets daily

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Poursina hospital

**Full name of responsible person****Street address****City**

Rasht

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Research and Technology Department, Guilan University of Medical Sciences

**Full name of responsible person**

Rasoul Tabari (pHD)

**Street address**

Research and Technology Department, Guilan University of Medical Sciences, opposite of agriculture bank, Gas \_ circle

**City**

Rasht

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

**organization/entity?**

Yes

**Title of funding source**

Research and Technology Department, Guilan University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

*empty*

**Domestic or foreign origin**

*empty*

**Category of foreign source of funding**

*empty*

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

*empty*

**Person responsible for general inquiries****Contact****Name of organization / entity**

Research and Technology Department, Guilan University of Medical Sciences

**Full name of responsible person**

Mohammad sadeq Mousavi

**Position**

Medical Student

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

Poursina Hospital, Higher than the Census Bureau, Poursina intersection

**City**

Rasht

**Postal code****Phone**

+1 315552241

**Fax****Email**

arman.mousavi1989@gmail.com

**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Guilan University of Medical Sciences

**Full name of responsible person**

Ahmadreza Mirbolouk (MD)

**Position**

Orthopaedic surgeon

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

Poursina Hospital, Higher than the Census Bureau, Poursina intersection

**City**

Rasht

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+1 313221572

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mirbolouk@yahoo.com

**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

Orthopaedic Research Center, Guilan University of Medical Sciences

**Full name of responsible person**

Mohammadsadeq Mousavi

**Position**

Medical Student

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

Poursina Hospital, Higher than the Census Bureau, Poursina intersection

**City**

Rasht

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+1 313221572

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arman.mousavi1989@gmail.com

**Web page address****Sharing plan****Deidentified Individual Participant Data Set (IPD)**

*empty*

**Study Protocol**

*empty*

**Statistical Analysis Plan**

*empty*

**Informed Consent Form**

*empty*

**Clinical Study Report**

*empty*

**Analytic Code**

*empty*

**Data Dictionary**

*empty*