Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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

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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
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Position
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Person responsible for scientific inquiries

Contact
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Person responsible for updating data

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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