

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Sep 2026

Effect of Injection Duration on Site-Pain Intensity and Bruising Associated with Subcutaneous Enoxaparin sodium in Acute Coronary Syndrome Patients Hospitalized at CCU in Afshar Hospital, Yazd

Protocol summary

Summary

Aim: Effect of subcutaneous injection duration of enoxaparin (30 seconds and 10 seconds) on pain intensity and bruising at the injection site Method: from among the 30-75 years old acute coronary syndrome patients hospitalized in CCU who are conscious and were prescribed enoxaparin each 12 hours 70 of them were randomly selected. Then, the injection of subcutaneous enoxaparin was done randomly in each subject through one of the two techniques of 10-30 seconds in the right left side of abdomen and 12 hours later next injection will be done. After that a circle with the radius of 2.5 cm is drawn around it by a waterproof marker (blue marker for 30seconds & red marker for 10seconds). Pain intensity is measured through VAS before and after each injection. Then, the bruising area is drowning on a millimeter transparent paper 24 and 48 hours later and it will be calculated per square millimeter. In order to reduce bias all injection will be done by the researcher.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201110267909N1**
Registration date: **2011-12-05, 1390/09/14**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-12-05, 1390/09/14

Registrant information

Name

Zahra Najari Varzaneh

Name of organization / entity

Medical University of shahid Sadoughi Yazd

Country

Iran (Islamic Republic of)

Phone

+98 35 1824 1751

Email address

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Recruitment status

Recruitment complete

Funding source

Research Assistant of Medical University of Shahid Sadoughi Yazd

Expected recruitment start date

2011-09-23, 1390/07/01

Expected recruitment end date

2012-06-20, 1391/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Injection Duration on Site-Pain Intensity and Bruising Associated with Subcutaneous Enoxaparin sodium in Acute Coronary Syndrome Patients Hospitalized at CCU in Afshar Hospital, Yazd

Public title

Effect of Injection Duration on Pain and Bruising Associated with Subcutaneous Enoxaparin

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria: 30 - 75 years old Patients with Acute coronary syndrome; Conscious; without scar and lesion on the site of injection; Non pregnant patients; No

coagulating disease Exclusions criteria: Patient younger than 30 years old and older than 75 years old; Pregnant patients; Scar and lesion on the site of injection; Unconscious; Coagulating disease

Age

From **30 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

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

Medical University of Shahid Sadoughi Yazd

Street address

School of Nursing and Midwifery, Bu Ali St, Safaeyeh Avenue

City

Yazd

Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

62259

Health conditions studied

1

Description of health condition studied

Bruising associated with injection

ICD-10 code

T14.0

ICD-10 code description

Superficial injury of unspecified body region

Primary outcomes

1

Description

Injection site pain

Timepoint

Before injection and immediately after injection

Method of measurement

Visual Analogue Scale

2

Description

Bruising at injection site

Timepoint

24 and 48 hours after injection

Method of measurement

per square millimeter

Secondary outcomes

empty

Intervention groups

1

Description

Subcutaneous injection of Enoxaparin-Na for 30 seconds in the right or left side of abdomen

Category

Other

2

Description

Subcutaneous injection of Enoxaparin-Na for 10 seconds in the right or left side of abdomen

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Afshar Hospital, Yazd

Full name of responsible person

Zahra najari varzaneh

Street address

Afshar hospital, Jomhoori Boulevard

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Medical University of Shahid Sadoughi Yazd
Full name of responsible person
 Khadijeh Dehghani
Street address
 Afshar hospital, Jomhoori Boulevard
City
 Yazd
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Medical University of Shahid Sadoughi Yazd
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
 Medical University of Shahid Sadoughi Yazd, School of Nursing and Midwifery
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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