

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The comparison of single injection with multiple injection in infraclavicular local anesthesia under guide of ulterasonography in patients undergone upper limp surgery

Protocol summary

Summary

With the development of regional anesthetic techniques, in addition to reducing the number of cases of general anesthesia, patients were more satisfied with the surgery and the anesthesia techniques. Infra-clavicular regional local anesthesia techniques including low morbidity and a high level of acceptance by patients, is one of the most widely used method, especially in the upper extremity surgery. Both simple and multiple injection techniques were used in different studies eventhough the Superiority of anyone compared to the other is controversial. The aim of this study was to compare single and multiple injection methods in infraclavicular local anesthesia. This study is designed as a randomized controlled double-blinded trial and were performed on two groups of 20 patients who underwent upper extremity surgery In Beast medical Center of Hamedan. Patients, 15-70 years old, were randomly divided into two study groups, and After localizing the axillary artery under an ultrasound Guide, regional anesthesia with lidocaine 1.5%, either posteriorly simple or multiple injections around artery were done. Within 5-15, 30 minutes and one hour after blocks, the amount of pain on a visual analog scale (VAS) in two groups were measured and compared. Also, the procedure time, anesthesia time to complete anesthesia, the number of cases of complete anesthesia, the number of cases that are in need of additional anesthesia, patient and doctor satisfaction conducting the study were been compared in the two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012103011326N1**
Registration date: **2012-11-19, 1391/08/29**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-11-19, 1391/08/29

Registrant information

Name

Aireza Gelini Moghaddam

Name of organization / entity

Hamedan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Hamedan University of Medical Sceinces

Expected recruitment start date

2011-12-21, 1390/09/30

Expected recruitment end date

2012-03-19, 1390/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparison of single injection with multiple injection in infraclavicular local anesthesia under guide of ulterasonography in patients undergone upper limp

surgery	
Public title	The comparison of single injection with multiple injection in local anesthesia in patients undergone upper limb surgery
Purpose	Other
Inclusion/Exclusion criteria	Inclusion criterion: 15-70 years old patients undergoing elective surgery in the upper extremities. Exclusion criteria: hypersensitivity to any of the drugs used; concurrent coagulopathy; localized infection at the injection site; systemic infection; the neurological deficit in the lower limbs; pregnancy and BMI>40.
Age	From 15 years old to 70 years old
Gender	Both
Phase	N/A
Groups that have been masked	No information
Sample size	Target sample size: 40
Randomization (investigator's opinion)	Randomized
Randomization description	
Blinding (investigator's opinion)	Double blinded
Blinding description	
Placebo	Not used
Assignment	Parallel
Other design features	
Secondary Ids	empty
Ethics committees	
<u>1</u>	
Ethics committee	
Name of ethics committee	Hamedan University of Medical Sciences Ethics Committee
Street address	Hamedan University of Medical Sciences- Abaas Abad square
City	Hamedan
Postal code	65178518
Approval date	2012-10-20, 1391/07/29
Ethics committee reference number	1558-9-35-16-پ-د

Health conditions studied	
<u>1</u>	
Description of health condition studied	upper limb injuries
ICD-10 code	T11.9
ICD-10 code description	Injury of arm NOS
Primary outcomes	
<u>1</u>	
Description	Patient satisfaction of anesthesia
Timepoint	End of procedure
Method of measurement	0-10 scale
<u>2</u>	
Description	Painlessness of patients
Timepoint	5, 15, 30 and 60 min after injection
Method of measurement	Visual analog scale
<u>3</u>	
Description	Anesthesiologist satisfaction of anesthesia
Timepoint	End of procedure
Method of measurement	0-10 scale
<u>4</u>	
Description	Need to addition of ketamine
Timepoint	End of procedure
Method of measurement	yes/no
Secondary outcomes	
<u>1</u>	
Description	Time of injection procedure
Timepoint	End of injection
Method of measurement	Minute

2

Description

Time to maximum analgesia

Timepoint

End of injection to maximum analgesia

Method of measurement

Minute

Intervention groups

1

Description

Simple injection for infraclavicular regional anesthesia

Category

Treatment - Drugs

2

Description

Multiple injection for infraclavicular regional anesthesia

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Beasat hospital

Full name of responsible person

Dr Alireza Moghadam

Street address

Resalat square. Beasat hospital

City

Hamedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Mrs Frahadi - research assistance

Street address

Hamedan- Hamedan University of Medical Sciences-
research assistance

City

Hamedan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Hamedan 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

Hamedan University of Medical Sciences

Full name of responsible person

Dr Alireza Galini Moghadam

Position

MD, Anesthesiology resident

Other areas of specialty/work

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Fax**Email**

homeopathylover@yahoo.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