

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Effect of IV Acetaminophen on postoperative pain in patients with Hip fracture

Protocol summary

Study aim

Determine the effect of preoperative intravenous acetaminophen administration on pain after surgery in patients with hip fracture

Design

Clinical trial with control group, Community based and pragmatic, with parallel group, double blind, Randomized with random number table Sample size 66 Trial phase 3

Settings and conduct

This study will be performed in Sabzevar Shahid Beheshti Hospital. The participants were randomly divided into two groups of control and intervention. In the intervention group, intravenous acetaminophen and in the control group will be used normal saline as a placebo, then the pain level of the patients will be evaluate by visual analogue scale and the timing of the application of the first dose of the analgesic and the amount of the analgesic after the operation will be recorded.

Participants/Inclusion and exclusion criteria

Entrance condition: All patient with hip fracture that have age over 15 years; Patient that have not concurrent any fracture; Patients that don't take any analgesic in 6 hour before surgery; Patients that don't have any concurrent surgery; Patients that have not alcohol or drug abuse; Only patients that take general anesthesia; Patients that be in class 1 and 2 of American Anesthesiology Association Condition of failure to enter: Patients with hepatic failure; Patients with renal failure; Patient with history of drug allergy to IV Acetaminophen

Intervention groups

In intervention group patients receive 15 mg/kg of intravenous acetaminophen half an hour before surgery. In control group patients receive 10 cc of normal saline half an hour before surgery.

Main outcome variables

postoperative pain; postoperative analgesic intake

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180225038861N1**

Registration date: **2018-05-09, 1397/02/19**

Registration timing: **registered_while_recruiting**

Last update: **2018-05-09, 1397/02/19**

Update count: **0**

Registration date

2018-05-09, 1397/02/19

Registrant information

Name

Mostafa Jafarpour

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-03-09, 1396/12/18

Expected recruitment end date

2018-06-19, 1397/03/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of IV Acetaminophen on postoperative pain in patients with Hip fracture		Name of ethics committee Ethics committee of Sabzevar University of Medical Sciences	
Public title Effect of iv Acetaminophen on pain in hip fracture		Street address Ethics committee of Sabzevar University of Medical Sciences, Shohadaye Hastei Blvd., Sabzevar City	
Purpose Treatment		City Sabzevar	
Inclusion/Exclusion criteria Inclusion criteria: All patient with hip fracture that have age over 15 years Patient that have not concurrent any fracture Patients that don't take any analgesic in 6 hour before surgery Patients that don't have any concurrent surgery Patients that have not alcohol or drug abuse Only patients that take general anesthesia Patients that be in class 1 and 2 of American Anesthesiology Association Exclusion criteria: Patients with hepatic failure Patients with renal failure Patient with history of drug allergy to IV Acetaminophen		Province Razavi Khorasan	
Age From 15 years old		Postal code 9617913114	
Gender Both		Approval date 2018-02-18, 1396/11/29	
Phase 3		Ethics committee reference number IR.MEDSAB.REC.1396.139	
Groups that have been masked - Participant - Outcome assessor		Health conditions studied 1 Description of health condition studied Hip fracture ICD-10 code S72 ICD-10 code description Fracture of femur	
Sample size Target sample size: 66		Primary outcomes 1 Description The clinical situation of pain Timepoint Half an hour after surgery, 4 hours after surgery, 12 hours after surgery and 24 hours after surgery Method of measurement Visual Analogue Scale	
Randomization (investigator's opinion) Randomized		Secondary outcomes empty	
Randomization description In this study , with the help of random number table patients will be placed in the two of study group.		Intervention groups 1 Description Intervention group: Iv Acetaminophen is a analgesic drug that in intervention group will be use one time ,half one hour before surgery and with dose 15 mg/kg	
Blinding (investigator's opinion) Double blinded		Recruitment centers 1 Recruitment center Name of recruitment center	
Blinding description By the nurse of the operating room half an hour before surgery, intravenous acetaminophen will be given to group A and normal saline (placebo) by syringes similar to those of group A will be given to group B patients and patients will not be aware of the contents of the syringe. The evaluator The outcome will also evaluate the outcome without knowing the prescription drug for each group.			
Placebo Used			
Assignment Parallel			
Other design features			
Secondary Ids empty			
Ethics committees 1 Ethics committee			

Shahid beheshti hospital in Sabzevar city

Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Sabzevar University of Medical Sciences

Full name of responsible person

Dr.Fereshte ghorat

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Research and technology Unit, Sabzevar University of medical science, Shodaye Hastei Blvd., Sabzevar

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Sabzevar 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

Sabzevar University of Medical Sciences

Full name of responsible person

Mostafa Jafarpour

Position

Student

Latest degree

A Level or less

Other areas of specialty/work

General Practitioner

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

No more information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available