

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jun 2026

Comparison The effect of intravenous vitamin C with dextromethorphan syrup before abdominal surgery on postoperative pain

Protocol summary

Study aim

Determining and comparing the effect of intravenous vitamin C with preoperative dextromethorphan syrup on pain after abdominal surgery

Design

The type of study: Double-blind Research community: Abdominal surgery candidate patients referred to Tehran Islamic Azad University hospitals Example of research: Abdominal surgery candidate patients referred to Islamic Azad University hospitals, Tehran Medical Unit in 2021 Sample size: 75

Settings and conduct

This research is carried out in hospitals affiliated to Islamic Azad University, Tehran Medical Sciences Unit. After obtaining written consent from patients who are candidates for elective abdominal surgery, first a list of patients who are willing to participate in the research is prepared and after matching, each patient is assigned a number and randomly according to the table of random numbers. Online are placed in two groups. (In order to make double-blind, the drugs at the beginning of the study are A/B by the nurse of the surgery department so that the researcher and the participants do not know the type of drug received). We put patients 2 and 1 in two groups A (recipient of vitamin C intravenously) and B (recipient of dextromethorphan syrup). Medicines are prescribed to patients upon entering the operating room and in the recovery room.

Participants/Inclusion and exclusion criteria

Criteria for entering the study: 1. Sign the written informed consent form 2. Non-use of drugs and alcohol 3. Elective surgery Exclusion criteria: 1. Loss of consciousness 2. Hemodynamic disorder 3. Abnormal intraoperative bleeding 4. The duration of the operation is more than 4 hours

Intervention groups

The effect of intravenous vitamin C with dextromethorphan syrup before abdominal surgery on postoperative pain

Main outcome variables

Abdominal post operative pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230612058463N1**

Registration date: **2023-07-09, 1402/04/18**

Registration timing: **retrospective**

Last update: **2023-07-09, 1402/04/18**

Update count: **0**

Registration date

2023-07-09, 1402/04/18

Registrant information

Name

Parviz Foroughi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 8844 1638

Email address

parvizforooghy@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-04-04, 1402/01/15

Expected recruitment end date

2023-09-01, 1402/06/10

Actual recruitment start date

2023-04-04, 1402/01/15

Actual recruitment end date

2023-07-01, 1402/04/10

Trial completion date

2023-07-01, 1402/04/10

Scientific title

Comparison The effect of intravenous vitamin C with dextromethorphan syrup before abdominal surgery on postoperative pain

Public title

Effect of dextromethorphan and vit c in postoperative pain in abdominal surgery

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

All patients with elective abdominal surgery Non-use of drugs and alcohol Sign the written informed consent form

Exclusion criteria:

Decrease level of consciousness Unstable hemodynamic Abnormal intraoperative bleeding Length of operation more than 4 hours

Age

From **15 years** old to **75 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: **150**

Actual sample size reached: **100**

Randomization (investigator's opinion)

Not randomized

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

Double blinded

Blinding description

Medicines are given to patients without knowing the type of syrup or the type of ampoule. The nurse knows about the prescribed medicine, but the researcher does not.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Research Ethics Committees of Tehran Islamic Azad University Of Medical Sciences

Street address

Islamic Azad University of Medical Sciences, Shariati St, Tehran, Iran

City

Tehran

Province

Tehran

Postal code

1949635881

Approval date

2022-12-26, 1401/10/05

Ethics committee reference number

IR.IAU.TMU.REC.1401.315

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

Abdominal post operative pain

ICD-10 code

R10.8

ICD-10 code description

Other abdominal pain

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

Pain

Timepoint

The amount of pain in the first hour, 6, 12, 24, after the operation

Method of measurement

Visual analog scales: The visual scale for measuring pain intensity is a 10 cm ruler, with the word "no pain" written at the left end and the most severe state of pain at the right end. This questionnaire has been confirmed in terms of validity and reliability

Secondary outcomes

empty

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

Intervention group: Patients receiving dextromethorphan syrup, each 5 cc of which contains 15 mg of dextromethorphan in the amount of 15 cc in patients under 60 kg and 30 cc in patients over 30 kg by spoon orally before It is consumed from entering the operating room.

Category

Treatment - Drugs

2**Description**

Control group: patients receiving 300 mg of injectable vitamin C drug in 200 cc volume of normal saline and administered intravenously to the patient before surgery.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Buali hospital

Full name of responsible person

Alireza Teimouri

Street address

Damavand Ave., Imam Hosien square, Tehran

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Postal code

1711734365

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Email

booali.hospital96@gmail.com

Web page address

<https://tms.iau.ir/bouali/fa>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Alireza Khoshdel

Street address

Islamic Azad University of Medical Sciences, Shariati St, Tehran, Iran

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Phone

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Email

Int.affairs@tms.iau.ir

Grant name

Grant code / Reference number

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

No

Title of funding source

Islamic Azad University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Private

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

Islamic Azad University

Full name of responsible person

Parviz Foroughi

Position

Student

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

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No. 13, Taghavi Ave., north Sohrevardi Blvd., Tehran

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Islamic Azad University

Full name of responsible person

Parviz Foroughi

Position

Student

Latest degree

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Person responsible for updating data

Contact

Name of organization / entity

Islamic Azad University

Full name of responsible person

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

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

Title and more details about the data/document

Full text of thesis

When the data will become available and for how long

2023

To whom data/document is available

Physicians and medical students

Under which criteria data/document could be used

Research

From where data/document is obtainable

parvizforooghy@gmail.com

What processes are involved for a request to access data/document

5 days

Comments