

# 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

**City**

Tehran

**Province**

Tehran

**Postal code**

1711734365

**Phone**

+98 21 3334 8036

**Fax**

+98 21 3378 6182

**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

**City**

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**Province**

Tehran

**Postal code**

1949635881

**Phone**

+98 21 2660 2642

**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

**Street address**

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

**City**

Tehran

**Province**

Tehran

**Postal code**

1568636816

**Phone**

+98 21 8844 1638

**Email**

parvizforooghy@gmail.com

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

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## Person responsible for updating data

### Contact

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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**