

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Investigation the effect of intravenous warm fluids on surgery shivering and core temperature in patients undergoing abdominal surgery

Protocol summary

Summary

The purpose of this clinical trial study will be investigated the effect of intravenous warm fluids on surgery shivering and core temperature in patients undergoing abdominal surgery. Seventy non-emergency patient candidate for abdominal surgery referring to operating room of educational hospital (Tohid and Bessat) of Kurdistan University of Medical Sciences investigates in Intervention (n=35) and Control (n=35) groups. The first method of study explores for patients that have inclusion criteria, consent form completed, and randomized to intervention or control groups. Demographic characteristic of patients, Central temperature, arterial oxygen saturation (SPO2), and Systolic and Diastolic pressure, Pulse will measure just in entering the recovery room after surgery. Psychrometer and thermometer model TES made by Taiwan will use. Patients in the intervention group will receive intravenous warm fluids (Ringer) 38 C checked by Warmer. After surgery during entering into recovery room Psychrometer and thermometer will use and patients will receive 5 liter O2 by mask, same kind of blanket used for all patients and monitored. Surgery shivering, core temperature, SPO2, Systolic and Diastolic pressure, Pulse will measure just entering the recovery room and after 30 Min.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201601163311N2**
Registration date: **2016-04-10, 1395/01/22**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-04-10, 1395/01/22

Registrant information

Name

Sina Valiee

Name of organization / entity

Kurdistan university of Medical Sciences

Country

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Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Kurdistan University of Medical Sciences

Expected recruitment start date

2015-12-01, 1394/09/10

Expected recruitment end date

2016-05-01, 1395/02/12

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigation the effect of intravenous warm fluids on surgery shivering and core temperature in patients undergoing abdominal surgery

Public title

Effect of intravenous warm fluids on surgery shivering and core temperature in patients undergoing abdominal surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Patients undergoing abdominal surgery; Volunteer for research participation; Non-

emergency surgery; Term (37-42 week) pregnancy in cesarean surgery; General or spinal anesthesia; Lack of corticosteroids; NSAIDs; Lack of Magnesium sulfate; Lack of Antihypertensives drugs; Lack of Endocrine disease; Lack of Vascular disease; Lack of Thyroid disease; Lack of Hypertension; Lack of Fever; Lack of addiction
Exclusion criteria: Blood transfusion during surgery; Hypotension during surgery; Patient dissuasion

Age

From **18 years** old to **70 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)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kurdistan University of Medical Sciences

Street address

Kurdistan University of Medical Sciences, Pasdaran St., Sanandaj, Kurdistan, Iran.

City

Sanandaj

Postal code

66177-13446

Approval date

2015-11-02, 1394/08/11

Ethics committee reference number

MUK.REC.1394.1394/210

Health conditions studied

1

Description of health condition studied

surgery shivering

ICD-10 code

T88.5

ICD-10 code description

Hypothermia following anaesthesia

Primary outcomes

1

Description

Shivering

Timepoint

Just entering recovery room and after 30 Min

Method of measurement

CROSSLEY AND MAHAJAN Scale

2

Description

Core temperature

Timepoint

Just entering recovery room and after 30 Min

Method of measurement

Tympanic Thermometer

Secondary outcomes

1

Description

SPO2, Systolic and Diastolic pressure, Pulse

Timepoint

Just entering recovery room and after 30 Min

Method of measurement

Pulse oximeter, Sphygmomanometer

Intervention groups

1

Description

Intervention group: Patients in intervention group will received warm fluids (Ringer serum) 38 Celsius after warming and checking by Warmer

Category

Prevention

2

Description

Control group: Patients in control group will received fluids (Ringer serum) with temperature same as room

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Kurdistan University of Medical Sciences

Full name of responsible person

Sina Valiee
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Kurdistan University of Medical Sciences, Pasdaran St
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Kurdistan University of Medical Sciences
Full name of responsible person
Mohammad Raman Moloudi
Street address
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Sanandaj
Grant name
11-8-1394-48319-14
Grant code / Reference number
11-8-1394-48319-14
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Kurdistan 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

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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