

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Effect of essential oil of Citrous Aurantium aromatherapy on anxiety of Patients who underwent coronary angiography

Protocol summary

Summary

The aim of this study is determine to effect of essential oil of Citrous Aurantium on anxiety of patients who underwent coronary angiography that referred to Imam Ali Hospital of Kermanshah University of Medical Sciences in 2016. In this study, 80 patients who are going to angiography for the first time will be studied. Patients will be divided in two equal case and control groups. In the case group, the questionnaire of demographic information and Spielberger anxiety are completed before intervention. Then pure Citrous Aurantium oil will be breathed by patients before angiography. Then the questionnaire of Spielberger anxiety will be completed again 15 to 20 minutes after intervention. In the control group all procedures are same but Instead of lavender oil, we use distilled water.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016040816797N2**

Registration date: **2016-04-21, 1395/02/02**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-04-21, 1395/02/02

Registrant information

Name

Hossein Ashtarian

Name of organization / entity

Kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 83 1826 2052

Email address

hashtarian@kums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2016-04-20, 1395/02/01

Expected recruitment end date

2016-08-22, 1395/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of essential oil of Citrous Aurantium aromatherapy on anxiety of Patients who underwent coronary angiography

Public title

Effect of essential oil of Citrous Aurantium aromatherapy on anxiety of Patients who underwent angiography

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: Doing coronary angiography for the first time; There isn't emergency situation; No operation has been done before and during angiography; No record of Allergic Rhinitis, Eczema or respiratory problems such as asthma and no olfactory dysfunction; No medical or uncontrolled infection disorder; Being aware of time, place and subject; Patient agreement for participating in study; No diagnosed mental illness; No drug addiction; the age between 30 to 75; Stable of vital signs; Having no pain at the time of interview and completing questioner; The ability to speak Persian; Gaining more

than 20 of the Spielberg State-anxiety questionnaires score. Exclusion criteria: Using sedative drugs without prescription during study; Patients suffering cardiac dysrhythmia, ventricular fibrillation, Ventricular tachycardia and cardiogenic shock; No cooperation during the study; Sensitivity to Citrous Aurantium.

Age

From **30 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **80**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kermanshah University Of Medical Sciences

Street address

Shahid Beheshti Blvd., Branch of researchs and industry of Kermanshah University Of Medical Sciences

City

Kermanshah

Postal code

Approval date

2016-01-21, 1394/11/01

Ethics committee reference number

kums.rec.1394.435

Health conditions studied

1

Description of health condition studied

Anxiety

ICD-10 code

F41.9

ICD-10 code description

Anxiety disorder, unspecified

Primary outcomes

1

Description

Anxiety

Timepoint

Before the intervention, 15 to 20 minutes after intervention

Method of measurement

The questionnaire of Spielberg anxiety

Secondary outcomes

empty

Intervention groups

1

Description

The first group (aromatherapy): The questionnaire of demographic information and Spielberg anxiety are completed before intervention. Then 4 milliliter of pure Citrous Aurantium oil which were dripped on tissue, will be breathed by patients before angiography. Then the questionnaire of Spielberg anxiety will be completed again 15 to 20 minutes after intervention. In the second group (control): all procedures are same but Instead of lavender oil, we use distilled water.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Ali Hospital

Full name of responsible person

Hossein Ashtarian

Street address

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Hossain Karim

Street address

Kermanshah, Kermanshah University of Medical Sciences, Branch of researchs and industry.

City

Kermanshah

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kermanshah 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**

Kermanshah University of Medical Sciences

Full name of responsible person

Hossein Ashtarian

Position

PhD, Academic staff of School of Nursing and Midwifery

Other areas of specialty/work**Street address**

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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