

Clinical Trial Protocol

Iranian Registry of Clinical Trials

22 Jun 2026

The effect of inhalation aromatherapy on anxiety level of the patient before coronary artery bypass graft surgery.

Protocol summary

Summary

This study compared the effects of lavender essence inhalation on the level of anxiety in coronary artery bypass graft surgery patients. Inclusion criteria included people over 18 years old; more than 20 anxiety score on Spielberger questionnaire; lack of drug addiction; no history of allergies to plants; non-psychiatric and anti-anxiety drugs and the patient's desire to withdraw from the study is the exclusion criterion. The study populations are 64 patients candidate for coronary artery bypass graft surgery in Afshar hospital, Yazd, Iran. Intervention methods: the evening of day before surgery, after completing the consent form, demographic and vital signs measured and recorded and the gauges Spielberger Anxiety Inventory, which contains 20 questions to be completed. The patients in the intervention group paper impregnated with 2 drops of lavender essential oil for 20 minutes and the control group paper impregnated with 2 drops of distilled water to be inhaled. After 20 minutes, once a patient has completed the questionnaire and vital signs are recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014012116146N2**

Registration date: **2014-02-24, 1392/12/05**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-02-24, 1392/12/05

Registrant information

Name

Hossein Zare Zardini

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 35 1824 5317

Email address

emamhossein_hospital@mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2014-02-20, 1392/12/01

Expected recruitment end date

2014-08-23, 1393/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of inhalation aromatherapy on anxiety level of the patient before coronary artery bypass graft surgery.

Public title

The effect of inhalation aromatherapy on anxiety level

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: patients candidates for coronary artery bypass graft surgery; age more than 18 years old; admitted in heart surgical ward one day before surgery; ability for read and write, score over 20 on the Spielberger questionnaire; no history of previous heart surgery; no history of allergies to plants; non-impaired sense of smell; no acute pain at the time of intervention;

lack of drug addiction; lack of psychiatric drugs use; fill out the consent form. Exclusion criterion: patients tend to withdraw from the study.

Age

From **18 years** old to **90 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **64**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shahid Sadoughi University of Medical Sciences

Street address

Yazd-Shahid Sadoughi University of Medical Sciences

City

Yazd

Postal code

Approval date

2014-02-08, 1392/11/19

Ethics committee reference number

223119

Health conditions studied

1

Description of health condition studied

Anxiety

ICD-10 code

F41.1

ICD-10 code description

Generalized anxiety disorder

Primary outcomes

1

Description

anxiety

Timepoint

Before and after intervention

Method of measurement

Spielberger questionnaire

Secondary outcomes

1

Description

Vital sign

Timepoint

Before and after intervention

Method of measurement

Manometer- inspection

Intervention groups

1

Description

Intervention group: inhalation of 2 drop of lavender oil for 20 minute on the evening of day before surgery.

Category

Treatment - Drugs

2

Description

Control group: inhalation of two drops of distilled water as placebo for 20 minute on the evening of day before surgery.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Afshar Hospital

Full name of responsible person

Hossien Zare Zadini

Street address

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Mr Mirhosseini

Street address

Yazd -Afshar Hospital

City

Yazd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahid Sadoughi 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

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Hossein Zare Zardini

Position

MSc student of critical care nursing

Other areas of specialty/work

Street address

Yazd School of Nursing Midwifery

City

Yazd

Postal code

Phone

+98 35 1824 5317

Fax

Email

hossien.zare1362@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Zahra Poormovahed

Position

MS in Nursing

Other areas of specialty/work

Street address

Yazd School of Nursing Midwifery

City

Yazd

Postal code

Phone

+98 35 1824 5317

Fax

Email

movahed446@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Full name of responsible person

Hossein Zare Zardini

Position

MSc student of critical care nursing

Other areas of specialty/work

Street address

Yazd School of Nursing Midwifery

City

Yazd

Postal code

Phone

+98 35 1824 5317

Fax

Email

hossien.zare1362@gmail.com

Web page address

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