Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Lavender efficacy on pain of hemodialysis patients, during inserting vascular needles

Protocol summary

Summary

The survey effect of Lavender essence on pain intensity during insertion of vascular needles in hemodialysis patients Design: crossover The main criteria for inclusion: over 18 years old, lack of sensitivity to skin test and fragrances, Ensuring the sense of smell, lack of receiving any tranquilizers, sedatives and analgesics prior to 6 hours The main criteria for exclusion: Pregnant women, history of asthma, bronchitis, chronic respiratory disease, addiction, smoking Samples are 30 who each of them will be tested four times (Routine method, Inhalation of Lavender, Local contact of Lavender, Placebo). Firstly, arterial needle is inserted for hemodialysis under completely routine conditions. For next times and randomly the type of intervention is selected in order to test all samples with four methods. Through inhalation method, patients will breathe 6 drops of Lavender dipped in 4x4 gauze while attached to their collar for 5 minutes. In local contact method, Lavender essence is spilled into a vial and spray 3 puffs on puncture site and remained for 5 minutes. In placebo method, 3 puffs of water would be sprayed on puncture site and remained for 5 minutes .The severity of pain assess after insertion arterial needle, before insertion venous needle by means of numeric scale (NRS).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201303076342N3**
Registration date: **2013-04-04, 1392/01/15**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-04-04, 1392/01/15

Registrant information

Name

Ali Asghar Ghods

Name of organization / entity

Semnan Universioty of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 23 1335 4192

Email address

aaghods66@gmail.com

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research of Semnan University of Medical Sciences

Expected recruitment start date

2013-02-19, 1391/12/01

Expected recruitment end date

2013-06-21, 1392/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Lavender efficacy on pain of hemodialysis patients, during inserting vascular needles

Public title

effect of lavender on pain

Purpose

Supportive

Inclusion/Exclusion criteria

The main criteria for inclusion: over 18 years old, Alert patients, Hemodialysis patients who need dialysis at least twice per week, not bearing any Eczema and sensitivity to fragrances, lack of sensitivity to skin tests

with Lavender essence, Ensuring their sense of smell with lemon smell test, it is at least 6 weeks after placement of fistula, lack of receiving any tranquilizers, sedatives and analgesics prior to 6 hours and negative neuropathy The main criteria for exclusion:Pregnant women, history of asthma , bronchitis, chronic respiratory disease, addiction, smoking, peripheral vascular disease, Migraine records, chronic headaches, recognized psychological diseases based upon patients' records, failed first vascular access, Hot water bag has been used one night before and any other reasons for lack of cooperation for research continuation....), Also if the patient have pain or irritation at the site of the fistula in those days do not intervention on patient.

Age
From **18 years** old to **99 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **120**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Used

Assignment
Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Semnan University of Medical Sciences

Street address
Headquarters Semnan University of Medical Sciences

City
Semnan

Postal code

Approval date
2013-02-13, 1391/11/25

Ethics committee reference number
91/271869

Health conditions studied

1

Description of health condition studied
hemodialysis

ICD-10 code
Z49.0

ICD-10 code description
Preparatory care for dialysis

Primary outcomes

1

Description
pain

Timepoint
Immediately after needle insertion

Method of measurement
Numeric Rating Scale for pain

Secondary outcomes

empty

Intervention groups

1

Description
Through inhalation method, patients will breathe 6 drops of Lavender dipped into a 4x4 gauze while attached to their collar for 5 minutes

Category
Other

2

Description
In local contact method, Lavender essence is spilled into a vial, would be sprayed 3 puffs on puncture site and remained for 5 minutes

Category
Other

3

Description
In placebo method, 3 puffs of water would be sprayed on puncture site and remained for 5 minutes

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Fatemieh Hospital

Full name of responsible person
Neda Hosseini, MS in critical care nursing

Street address

Fatemieh Hospital, 17 shahrivar Bolvar

City

Semnan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research of Semnan University of Medical Sciences

Full name of responsible person

Dr. Raheb Ghorbani

Street address

Vice Chancellor for Research, Semnan University of Medical Sciences

City

Semnan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor for Research of Semnan 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

Semnan University of Medical Sciences

Full name of responsible person

Ali Asghar Ghods

Position

PhD

Other areas of specialty/work

Street address

Nursing Faculty, Semnan University of Medical Sciences

City

Semnan

Postal code

Phone

+98 23 1335 4170

Fax

Email

aaghods@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Ali Asghar Ghods

Position

PhD

Other areas of specialty/work

Street address

Nursing Faculty, Semnan University of Medical Sciences

City

Semnan

Postal code

Phone

+98 23 1335 4170

Fax

Email

aaghods@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Ali Asghar Ghods

Position

PhD

Other areas of specialty/work

Street address

Nursing Faculty, Semnan University of Medical Sciences

City

Semnan

Postal code

Phone

+98 23 1335 4170

Fax

Email

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