

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

04 Jul 2026

### Evaluation of The Effect of 10% Lidocaine Spray on Reducing the Pain of IUD Insertion

#### Protocol summary

##### Summary

Intrauterine device (IUD) is one of the most efficient contraceptive methods. but, IUD insertion is accompanied by pain and discomfort. This study evaluated the analgesic effects of 10% Lidocaine spray in reducing IUD insertion pain. In a randomized clinical trial, 80 volunteers for IUD insertion were selected from women who refer to Urmia Nikkiah Urban Health Center and randomly allocated to two groups. The intervention group received four puffs of 10% Lidocaine spray (40 mg) on their cervix prior to IUD insertion. The routine procedure (without an analgesic) was followed in the control group. Then IUD insertion was done in Litatomy position by ministry of health guideline. The intensity of perceived pain in both groups was measured using a visual analog scale 0 to 10 Cm and the data was analyzed by statistical methods.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017042333608N1**

Registration date: **2017-10-15, 1396/07/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-10-15, 1396/07/23

##### Registrant information

##### Name

Maryam Hajiesmaello

##### Name of organization / entity

Urmia Branch, Islamic Azad University

##### Country

Iran (Islamic Republic of)

##### Phone

+98 44 3348 0140

##### Email address

m.hajiesmailou@iaurmia.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Urmia Branch, Islamic Azad University

##### Expected recruitment start date

2014-03-11, 1392/12/20

##### Expected recruitment end date

2014-09-21, 1393/06/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Evaluation of The Effect of 10% Lidocaine Spray on Reducing the Pain of IUD Insertion

##### Public title

Evaluation of The Effect of 10% Lidocaine Spray on Reducing the Pain of IUD Insertion

##### Purpose

Prevention

##### Inclusion/Exclusion criteria

Inclusion Criteria: No allergies to Lidocaine; Haven't received analgesics and narcotics during the 24 hours before IUD insertion; History of childbirth up to 3 times; no any contraindication for IUD insertion (suspected pregnancy; history of pelvic inflammatory disease; abnormal uterine anatomy; Wilson's disease; unexplained vaginal bleeding and cervical malignancy)  
Exclusion Criteria: Problem to IUD insertion; uterine size smaller than 6 cm or larger than 9 cm.

##### Age

From **18 years** old to **45 years** old

**Gender**

Female

**Phase**

3

**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**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Vice Chancellor for Health of Urmia University of Medical Sciences

**Street address**

Vice Chancellor for Health of Urmia University of Medical Sciences, Orjans Town, Resalat Blv, Urmia, Iran

**City**

Urmia

**Postal code**

5714783734

**Approval date**

2014-02-24, 1392/12/05

**Ethics committee reference number**

P/05124284/92

**Health conditions studied****1****Description of health condition studied**

The Effect of 10% Lidocaine Spray on Reducing the Pain of IUD Insertion

**ICD-10 code**

-

**ICD-10 code description**

-

**Primary outcomes****1****Description**

Pain

**Timepoint**

Pain at baseline and during and after IUD insertion.

**Method of measurement**

Visual Scale Analog

**Secondary outcomes**

empty

**Intervention groups****1****Description**

The intervention group received local anesthetic by four puffs of 10% lidocaine (40 mg) at cervical area three minutes prior to IUD insertion

**Category**

Prevention

**2****Description**

The control group (routine IUD insertion without analgesia)

**Category**

Other

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Urmia Nikkhah Urban Health Center

**Full name of responsible person**

Poone Ebne AbdolAli

**Street address**

Urmia Nikkhah Urban Health Center, Near West Terminal, Dokhaniaat Junc, Urmia, Iran

**City**

Urmia

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Vice Chancellor For Research Of Urmia Branch, Islamic Azad University

**Full name of responsible person**

Nazanin Shafiee

**Street address**

Urmia Branch, Islamic Azad University, 2th Kilometer of Airport road, Urmia, Iran

**City**

Urmia

**Grant name**  
**Grant code / Reference number**  
1039508050035  
**Is the source of funding the same sponsor organization/entity?**  
Yes  
**Title of funding source**  
Vice Chancellor For Research Of Urmia Branch, Islamic Azad University  
**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 scientific inquiries

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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*