

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

19 Jun 2026

### Evaluation of the effect of dopamine on the appropriate time of urination in oliguric patients.

#### Protocol summary

##### Summary

This study evaluates the effect of Dopamine on the appropriate time of the first urination and the gradual excess in urine volume until reaching the normal urine output in oliguric children. At the Amir kabir pediatric hospital of Arak, 120 oliguric patients are non-randomly selected and divided into two intervention and control groups. Patients with any kinds of kidney malignancy, the chronic kidney diseases and the patients who have been under the chronic kidney drug therapy will be excluded. For the intervention group, Dopamine at the dose of 3µg/kg/min is prescribed via intravenous injection until the beginning of the first urination and this drug therapy will be continued until reaching the normal urine output volume. For the control group, normal saline at the dose of 20cc/kg/min will be prescribed via intravenous injection and like the intervention group this serum therapy will be continued until first urination and normal urine output volume. Finally, the exact time of the first urination and the time of gaining the normal urine output due to correction of the body electrolyte disturbances and kidney function will be compared and evaluated statistically. This study is not blinded because of the method of selection of the subjects and the use of drugs (dopamine and normal saline).

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017011513366N6**  
Registration date: **2017-10-05, 1396/07/13**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2017-10-05, 1396/07/13

#### Registrant information

##### Name

Parsa Yousefi Chaijan

##### Name of organization / entity

Arak University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 86 1312 1964

##### Email address

dr.yousefi@arakmu.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Vice Chancellor for research ,Arak University of Medical Sciences

#### Expected recruitment start date

2016-10-22, 1395/08/01

#### Expected recruitment end date

2019-08-23, 1398/06/01

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

Evaluation of the effect of dopamine on the appropriate time of urination in oliguric patients.

#### Public title

The effect of dopamine on the appropriate time of urination in oliguric patients

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

Inclusion criterion: acute kidney failure. Exclusion criteria : chronic underlying disease or malignancy; consuming another concurrent drug

## Age

No age limit

## Gender

Both

## Phase

2

## Groups that have been masked

No information

## Sample size

Target sample size: 120

## Randomization (investigator's opinion)

Not randomized

## Randomization description

## Blinding (investigator's opinion)

Not blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

The patients are non randomly divided in to two groups receiving intra venous dopamine(case) and intravenous fluid therapy(Control).

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of the Arak University of Medical Sciences

##### Street address

Faculty of Medicine, Sardasht, Taleqani street, Arak

##### City

Arak

##### Postal code

#### Approval date

2016-08-22, 1395/06/01

#### Ethics committee reference number

IR.ARAKMU.REC.1395.222

## Health conditions studied

### 1

#### Description of health condition studied

oliguria

#### ICD-10 code

R34

#### ICD-10 code description

Anuria and oliguria

## Primary outcomes

### 1

#### Description

The proper disposal of urine and oliguric recovery

#### Timepoint

Before and after treatment

#### Method of measurement

questionnaire

## Secondary outcomes

### 1

#### Description

Electrolyte disturbances and kidney function

#### Timepoint

Before and after treatment

#### Method of measurement

questionnaire

## Intervention groups

### 1

#### Description

Intervention group : Dopamine at a dose of 3 microgram/kg per minutes until improvement of oliguria.

#### Category

Treatment - Drugs

### 2

#### Description

Control group :Routine classical drug therapy(Fluid therapy with normal saline) until improvement of oliguria.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Arak AmirKabir Hospital

##### Full name of responsible person

Dr. Vahab Ghanbari

##### Street address

Amir Kabir Hospital, Rahe Ahan Street, Arak

##### City

Arak

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice Chancellor for Research,Arak University of Medical Sciences

##### Full name of responsible person

Dr. Mohammad Rafiee

**Street address**

Faculty of Medicine, Sardasht, Taleqani street, Arak

**City**

Arak

**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, Arak 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**

Arak University of Medical Sciences

**Full name of responsible person**

Dr. Parsa Yousefi

**Position**

Pediatrics Nephrologist

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## Person responsible for scientific inquiries

**Contact**

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Arak University of Medical Sciences

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Dr. Vahab Ghanbari

**Position**

Pediatrics resident

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## Person responsible for updating data

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**Other areas of specialty/work**

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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*