

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jun 2026

Efficacy of furosemide-albumin compared to furosemide in oligouric hypoalbuminemic patients

Protocol summary

Summary

The aim of this study is to determine the efficacy of furosemide-albumin compared to furosemide in oligouric hypoalbuminemic patients. After approval of the ethics committee of Tabriz University of Medical Sciences, 10 patients admitted to the intensive care unit with oligouria and serum albumin less than 3g/dl and requiring the use of furosemide to increase urine output will be included in the study. They will be randomized into two groups as albumine/furosemide group or furosemide group. In the furosemide group, patients will receive 60 mg lasix in 100 ml normal saline in 30 minutes; and in the albumine/furosemide group, patients will receive 60 mg lasix in 100 ml albumine in 30 minutes. 24-hour urine sample will be collected every 2 hours until 12 hours and then one sample for the next 12 hour; and urinary concentration of sodium and furosemide will be reported with HPLC method.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201412132582N12**
Registration date: **2015-02-23, 1393/12/04**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-02-23, 1393/12/04

Registrant information

Name

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Name of organization / entity

Tabriz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Research deputy of Tabriz University of Medical Sciences

Expected recruitment start date

2014-12-21, 1393/09/30

Expected recruitment end date

2015-02-18, 1393/11/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of furosemide-albumin compared to furosemide in oligouric hypoalbuminemic patients

Public title

Effect of albumine- furosemide in oligouric patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patients admitted to the intensive care unit; oligouria; serum albumin<3g/dl; generalized edema; requiring the use of furosemide to increase urine output Exclusion criteria: serum albumin>3g/dl; nonoligouric acute renal failure; balance of fluid loaded to the patient and no need for greater diuresis by the physician; receiving diuretics in the past 48 hours; hemodynamically unstable patients with vasopressor dependence; pregnancy; ESRD patients with anuria, cirrhosis, nephrotic syndrome, cardiogenic shock and CRF

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 10

Randomization (investigator's opinion)

N/A

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

Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences

City

Tabriz

Postal code

Approval date

2014-09-08, 1393/06/17

Ethics committee reference number

5/4/5555

Health conditions studied

1

Description of health condition studied

AKI

ICD-10 code

N17.9

ICD-10 code description

Acute renal failure, unspecified

Primary outcomes

1

Description

urinary furosemide

Timepoint

24-hour urine sample will be collected every 2 hours until 12 hours and then one sample for the next 12 hours

Method of measurement

HPLC

Secondary outcomes

1

Description

Urinary Na

Timepoint

Urine sampling will be at 8-10,10-12,12-14, 14-16,16-18 and 18-20 o'clock and then 20 till 8 in the next day,s morning

Method of measurement

HPLC

Intervention groups

1

Description

In the furosemide/Albumine(intervention) group patients received 60 mg lasix in 100 ml albumine in 30 minutes.

Category

Treatment - Drugs

2

Description

In furosemide(Control) group patients received 60 mg lasix in 100 ml normal saline in 30 minutes.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

ICU of Shohada hospital

Full name of responsible person

Ata Mahmoodpoor

Street address

Shohada hospital, El-goli street

City

Tabriz

2

Recruitment center

Name of recruitment center

General intensive care unit of Imam Reza hospital

Full name of responsible person

Ata Mahmoodpoor

Street address

Imam Reza hospital, Golgasht street

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Deputy of Tabriz University of Medical Sciences

Full name of responsible person

Mehdi Farhudi

Street address

Tabriz University of Medical Sciences, Golgasht street

City

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Deputy of Tabriz 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

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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