Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 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
Ata Mahmoodpoor
Name of organization / entity
Tabriz University of Medical Sciences
Country
Iran (Islamic Republic of)
Phone
+98 914 116 0888
Email address
mahmoodpoora@tbzmed.ac.ir

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
Tabriz
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
Tabriz University of Medical Sciences
Full name of responsible person
Farnaz Shahabi
Position
Anesthesiology resident
Other areas of specialty/work
Street address
Tabriz University of Medical Sciences
City
Tabriz
Postal code
Phone
+98 41 3334 1994
Fax
Email
farnazshahabi@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Ata Mahmoodpoor
Position
Associate professor
Other areas of specialty/work
Street address
Tabriz University of Medical Sciences, Golgasht street
City
Tabriz
Postal code
Phone
+98 41 3334 1994
Fax
+98 41 3334 1994
Email
amahmoodpoor@yahoo.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Research deputy of Tabriz University of Medical Ssciences
Full name of responsible person
Farnaz Shahabi
Position
Anesthesiology resident
Other areas of specialty/work
Street address
Tabriz University of Medical Sciences, Golgasht street
City
Tabriz
Postal code
Phone
+98 41 3334 1994
Fax
Email
farnazshahabi@yahoo.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