

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Assessment of complementary Vitamin C on pediatrics urinary tract infection

Protocol summary

Summary

Infection is the most common disorder of urinary tract system among children. Having no definite sign and symptoms, some cases of UTI present with weight loss, FTT and anorexia. Regarding its complications, drug resistance and side effects, pharmacologic intervention to induce sooner convalescence with shorter period of drug consumption seems logic. Vitamin C enhances response to therapy in many hosts and has an important role in immune homeostasis. In this article, we assess possible effect of Vitamin C in treating children with UTI admitted in Amir Kabir Hospital in Arak city. This is a clinical trial, recruiting 159 patients admitted due to UTI. We randomized the patients into two groups of case & control; due to poor compliance, 7 patients were omitted from study. In case group, children were treated with Vit C 250 mg daily for 14 days. Both groups were given routine antibiotic regime for UTI (ceftiraxone 50-75 mg/kg/day/iv for admitted patents followed by Cefixime 8mg/kg/day/po for outpatients). At the end, 152 admitted patients suffering with UTI (with no underlying disease) were assessed in terms of treatment efficacy according to their clinical and urine culture results. Data were analyzed using kai-2 Fisher and T test.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015073113366N5**

Registration date: **2017-02-19, 1395/12/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-02-19, 1395/12/01

Registrant information

Name

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Name of organization / entity

Arak University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Arak University of Medical Sciences

Expected recruitment start date

2011-06-22, 1390/04/01

Expected recruitment end date

2012-02-20, 1390/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of complementary Vitamin C on pediatrics urinary tract infection

Public title

Effect of Vitamin C on pediatrics urinary tract infection

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: the positive urinary tract infection; absence of congenital kidney disease and consent to participate in research project. Exclusion criteria: any reason patients want to leave the study and not satisfied to use their personal data in the study.

Age
From **3 years** old to **12 years** old

Gender
Female

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **152**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Arak University of Medical Sciences

Street address
Arak, Sardasht, Arak University of Medical Sciences

City
arak

Postal code

Approval date
2011-06-15, 1390/03/25

Ethics committee reference number
90-109-11

Health conditions studied

1

Description of health condition studied
Urinary tract infection

ICD-10 code
NO39.0

ICD-10 code description
Urinary tract infection, site not specified

Primary outcomes

1

Description
Urinary tract infection

Timepoint

Before and after drug consumption which is in a period of 14 days.

Method of measurement
Urine culture

Secondary outcomes

empty

Intervention groups

1

Description

Add vitamin C to common treatment of urinary tract infections

Category
Treatment - Drugs

2

Description

Ceftriaxone at a dose of 50- 75 mg / kg / day / iv used in both intervention and control groups, which is in a period of 14 days.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Pediatric clinic of Amir Kabir hospital

Full name of responsible person

Street address

City
Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Arak University of Medical Sciences

Full name of responsible person
Mohammad Rafiei

Street address
Arak, Sardasht, Arak University of Medical Sciences

City
Arak

Grant name

Grant code / Reference number

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

Yes

Title of funding source

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****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Amir Kabir Hospital

Full name of responsible person

Parsa Yousefi Chaijan

Position

Associate Professor of Pediatric Nephrology

Other areas of specialty/work**Street address**

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Amir Kabir Hospital

Full name of responsible person

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Position

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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*