

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jul 2026

Evaluating effect of early adminestration of corticosteroid in sepsis; A randomized clinical triali

Protocol summary

Study aim

Evaluating effect of early corticosteroid adminestration in sepsis

Design

TThis is a triple-blind, randomized clinical trial in which 40 eligible patients will be allocated in 1:1 to the intervention or control group according to the permuted block randomization. The study is phase 3.

Settings and conduct

This triple-blind, randomized clinical trail will be organized in Imam Khomeini Hospital Complex. Patients with diagnosis of sepsis in first 24-hour of admission are candidates for evaluation. Eligible patients will be randomly assigned in the control or intervention group using permuted block randomization. Concomitant with the standard of care (fluids, antibiotic, management of electrolytes and acid-base disturbances and metabolic supports) patients in the intervention and control group will receive intravenous hydrocortisone 50 mg every 6-hour or placebo for up to 48 hours respectively. Patient, physician and investigator are blind about type of intervention.

Participants/Inclusion and exclusion criteria

Septic patients between 18 and 89 years old, SOFA SCORE $\geq$ 2, SBP<90mmHg or plasma lactate level of > 2mmol/L

Intervention groups

Control group: Will receive standard care of sepsis including fluid resuscitation, antimicrobial therapy, correction of electrolytes and acid-base imbalances and metabolic supports along with placebo. Intervention group: Will receive standard care of sepsis including fluid resuscitation, antimicrobial therapy, correction of electrolytes and acid-base imbalances and metabolic supports along with intravenous hydrocortisone 50 mg every 6-hour for up to 48 hours.

Main outcome variables

Time to enter the septic shock

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230701058635N1**

Registration date: **2024-02-16, 1402/11/27**

Registration timing: **registered_while_recruiting**

Last update: **2024-02-16, 1402/11/27**

Update count: **0**

Registration date

2024-02-16, 1402/11/27

Registrant information

Name

Ehsan Emami

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 6670 2171

Email address

e-emami@student.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-01-21, 1402/11/01

Expected recruitment end date

2025-01-20, 1403/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating effect of early administration of corticosteroid in sepsis; A randomized clinical trial		Secondary IDs	
		empty	
Public title	Effect of early administration of corton in sepsis	Ethics committees	
Purpose	Treatment	1	
Inclusion/Exclusion criteria		Ethics committee	
Inclusion criteria:	Age of 18-89 years Systolic blood pressure of <90 mmHg or plasma lactate level of >2 mmol/L SOFA score of ≥2 points consequent to the infection	Name of ethics committee	
Exclusion criteria:	Rejection of sepsis diagnosis after initial evaluations Decision to limit or withdraw treatment Steroid use within 4 weeks Chemotherapy for underlying malignancy within 4 weeks Etomidate use during hospitalization Pregnancy or lactation Informed written consent cannot be obtained from a patient or legal representative Corticosteroides contraindications	Ethics committee of Tehran University of Medical Sciences	
Age	From 18 years old to 89 years old	Street address	
Gender	Both	Ghods Ave. Tehran University of Medical Science	
Phase	3	City	
Groups that have been masked	- Participant - Care provider - Investigator - Outcome assessor - Data analyser	Tehran	
Sample size	Target sample size: 40	Province	
Randomization (investigator's opinion)	Randomized	Tehran	
Randomization description	Randomization will be done according to the block randomization method. regarding the sample size, 4 patients will be included in each group. Randomization groups generally are AABB, ABAB, ABBA, BABA, BAAB, and BBAA. Rndom numbers will be generate using Excel software.	Postal code	
Blinding (investigator's opinion)	Triple blinded	1417614411	
Blinding description	Intravenous hydrocortisone and saline will be prepared and labelled by a technician who is not involved in the study. As complete solubility of hydrocortisone in saline; without any distinct color and smell, same volume of saline will be labelled as control. Patient, physician an clinical evaluator are not aware regarding syringes contents.	Approval date	
Placebo	Used	2023-06-28, 1402/04/07	
Assignment	Parallel	Ethics committee reference number	
Other design features		IR.TUMS.TIPS.REC.1402.046	
		Health conditions studied	
		1	
		Description of health condition studied	
		sepsis	
		ICD-10 code	
		R65.1	
		ICD-10 code description	
		Systemic Inflammatory Response Syndrome of infectious origin with organ failureSevere sepsis	
		Primary outcomes	
		1	
		Description	
		Time to enter the septic shock	
		Timepoint	
		Every 1-hour	
		Method of measurement	
		According mean arterial pressure	
		Secondary outcomes	
		1	
		Description	
		Vasopressor requirement	
		Timepoint	
		Every 1-hour	
		Method of measurement	
		Starting a vasopressor drug (type and dose)	
		2	
		Description	

Need for mechanical ventilation support

Timepoint

Every 1-hour

Method of measurement

Patient intubation

3

Description

7-day mortality

Timepoint

7 days after initial treatment

Method of measurement

patient follow-up

4

Description

28-day mortality

Timepoint

28 days after initial treatment

Method of measurement

patient follow-up

5

Description

length of stay in ICU

Timepoint

Daily

Method of measurement

patient follow-up

Intervention groups

1

Description

Concomitant with the standard of care (fluid resuscitation, antibiotic therapy, management of electrolytes and acid-base disturbances and metabolic supports) patients will receive intravenous hydrocortisone 50 mg every 6-hour for up to 48 hours.

Category

Prevention

2

Description

Control group: Concomitant with the standard of care (fluid resuscitation, antibiotic therapy, management of electrolytes and acid-base disturbances and metabolic supports) patients will receive 4-ml placebo as intravenous injection every 6-hour for up to 48 hours.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person

Ehsan Emami

Street address

End of Keshavarz Blvd, Imam Khomeini Hospital

City

Tehran

Province

Tehran

Postal code

1419733134

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ehsaann78@gmail.com

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<https://ikhc.tums.ac.ir/>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Ali Akbari Sari

Street address

Vice Chancellor for Research, Tehran University of Medical Sciences< Ghods Ave, Tehran, Iran

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1417993337

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Web page address

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Ehsan Emami

Position

Student

Latest degree

Medical doctor

Other areas of specialty/work

Medical Pharmacy

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Fax**Email**

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

Results of the study will be published. The study protocol
and statistical analysis will be included in the manuscript

When the data will become available and for how long

One year after finishing the study, data will be published
and will be available in databases

To whom data/document is available

After permission from the sponsor, data of the study will
be available for academic researchers, physicians and
scientific institutes

Under which criteria data/document could be used

Other researchers are permitted to include the results
in their systematic reviews and metaanalysis

From where data/document is obtainable

For this you may ask from scientific responsible person.

What processes are involved for a request to access data/document

After receiving the query, dependent on the requested
data, the scientific responsible person of the study will
response to the query in coordinate with the sponsor

within 2 weeks

Comments