Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Survey of Intravenous Acetaminophen versus intravenous morphin in acut burn pain management

Protocol summary

Summary

Burn pain management is a major challenge in treating of these patients. In this randomized single blinded interventional study intravenous acetaminophen and intravenous morphine will be compared for pain management in the burns. 150 patients from 15 to 55 years old with 15% to 50% acute burn and indication of admission will be enrolled to our study. Patients with unstable vital signs, altered mental status and substance abuse will be excluded. The Patients will be selected as random allocation AND consecutive sampling and will be divided into 3 equal (50) groups. The first group on the first day will be received IV acetaminophen and in the second day IV morphine. The second group on the first day will be received IV morphine and in the second day IV acetaminophen and the third group will be received IV morphine in the first and second day. Pain intensity will be measured according to visual analog scale one minute before the injection, 30 and 60 minutes after the injection in each group. The mean pain reduction on VAS before and after injection will be compared in tree groups. Morphine dosage: 0.1 mg/kg every 6 hours Acetaminophen dosage: adults over 50 kg: 1 g IV every 6 hours Adults under 50 kg: 15 mg /kg IV every 6 hours

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201101205588N1**
Registration date: **2011-06-30, 1390/04/09**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2011-06-30, 1390/04/09

Registrant information

Name
Karim Sohrabi
Name of organization / entity
Tehran University of Medical Sciences
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Iran (Islamic Republic of)
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+98 913 310 1097
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Recruitment status

Recruitment complete

Funding source

Tehran university of medical sciences

Expected recruitment start date

2011-02-04, 1389/11/15

Expected recruitment end date

2011-07-06, 1390/04/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Survey of Intravenous Acetaminophen versus intravenous morphin in acut burn pain management

Public title

effect of intravenous acetaminophen on pain manegement

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:Second or more degree of burn;Burn at least 15% total body surface area AND maximum 50% total body surface area;Hospitalization at least for 2 days;Stable vital signs and ASA I AND ASA II conditions.

Exclusion criteria:Drug abuse and addiction;Unstable vital signs; loss of consciousness ;respiratory distress;Pneumothorax or suspicion to that;Bowel obstruction or suspicion to that;Pneumocephalus;Asthma AND COPD AND IHD;Discharged patients by informed consent in less than 2 days of hospitalization;Active chronic liver disease.

Age
From **15 years** old to **55 years** old

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **150**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Tehran University of Medical Sciences

Street address
Crossroad of Hemmat AND Fazl-allah Expway

City
Tehran

Postal code

Approval date
2010-11-23, 1389/09/02

Ethics committee reference number
152

Health conditions studied

1

Description of health condition studied
burn

ICD-10 code
T30.2

ICD-10 code description
Burn of second degree, body region unspecified

2

Description of health condition studied
burn

ICD-10 code
T30.3

ICD-10 code description
Burn of third degree, body region unspecified

3

Description of health condition studied
burn

ICD-10 code
T31.1

ICD-10 code description
Burns involving 10-19% of body surface

4

Description of health condition studied
burn

ICD-10 code
T31.2

ICD-10 code description
Burns involving 20-29% of body surface

5

Description of health condition studied
burn

ICD-10 code
T31.3

ICD-10 code description
Burns involving 30-39% of body surface

6

Description of health condition studied
burn

ICD-10 code
T31.4

ICD-10 code description
Burns involving 40-49% of body surface

7

Description of health condition studied
burn

ICD-10 code
T31.5

ICD-10 code description
Burns involving 50-59% of body surface

Primary outcomes

1

Description
Pain severity

Timepoint
30 minute and 60 minute after analgesic injection

Method of measurement

visual analoge pain scale

Secondary outcomes

empty

Intervention groups

1

Description
intervention: acetaminophen 15mg/kg Max 1000 mg every 6 hours IV for first day and morphine 0.1 mg/kg every 6 hours IV for second day
Category
Treatment - Drugs

2

Description
intervation:morphin 0.1 mg/kg every 6 hours IV for first day and acetamionophen 15 mg/kg Max 1000mg every 6 hours IV for second day
Category
Treatment - Drugs

3

Description
control: morphin 0.1 mg/kg every 6 hours IV for first day and second day
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Motahari Hospital
Full name of responsible person
Sohrabi Karim MD
Street address
yasemi ave. vali-asr ave. tehran.iran
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
tehran university of medical sciences
Full name of responsible person
research commitee
Street address
Crossroad of Hemmat AND Fazl-allah Expway
City
Tehran
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
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
Tehran University of Medical Sciences
Full name of responsible person
Sohrabi Karim MD
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Person responsible for scientific inquiries

Contact
Name of organization / entity
Tehran University of Medical Sciences
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Salehi Reza MD
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Other areas of specialty/work
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Person responsible for updating data

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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