Clinical Trial Protocol
Iranian Registry of Clinical Trials

24 Nov 2026

The effect of intralipid serum gavage on the mortality of acute poisoning of aluminum phosphate

Protocol summary

Summary

This study is designed to investigate the effect of gastric gavage of intralipid serum in the acute poisoning of aluminum phosphate (AlP) due to high mortality of this rodenticide and the fact that the most important step in the management of this toxicity is reducing the absorption of phosphine gas in the gastrointestinal tract. In this study, the patients with acute ingestion of AlP (less than 1 hour) would be included and randomized in to 2 groups. In the control group, the routine steps in the gastric lavage with potassium permanganate would be done. In the case group, 500cc of intralipid serum (10%) would be administered via gastric gavage. The clinical manifestations, hemodynamic changes, acid-base disorders and the mortality rate would be compared between case and control group via appropriate statistical tests.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201205279883N1**
Registration date: **2012-12-09, 1391/09/19**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2012-12-09, 1391/09/19

Registrant information

Name
Forough Sadat Sayyah Melli
Name of organization / entity
Department of Forensic Medicine and Toxicology
Country
Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2012-03-20, 1391/01/01

Expected recruitment end date

2013-03-21, 1392/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of intralipid serum gavage on the mortality of acute poisoning of aluminum phosphate

Public title

The effect of intragastric administration of intralipid serum on the mortality of acute poisoning of aluminum phosphate

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Acute poisoning of aluminum phosphate with the ingestion time of less than 1 hour.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size
Target sample size: **100**

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
PourSina St.

City
Tehran

Postal code

Approval date
2011-11-28, 1390/09/07

Ethics committee reference number
90/D/130/1596

Health conditions studied

1

Description of health condition studied
Aluminium phosphate poisoning

ICD-10 code
T47.1

ICD-10 code description
Poisoning: Other antacids and anti-gastric-secretion drugs

Primary outcomes

1

Description
Mortality rate

Timepoint
after intervention

Method of measurement
Evaluation of clinical manifestation (BP, HR, RR, Pupil size), hemodynamic changes, acid-base disorders

Secondary outcomes

empty

Intervention groups

1

Description
Control Group: Routine gastric decontamination with potassium permanganate.

Category
Treatment - Drugs

2

Description
Intervention group: Gastric lavage with 500cc of intralipid serum (10%)

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Loghman Hakim Hospital

Full name of responsible person
Dr Forough Sadat Sayyah Meli

Street address
Kamali St.,

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
Dr Sayyah Meli

Street address
PourSina St,

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
Department of Forensic Medicine and Toxicology, Tehran University of Medical Scinences
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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