

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Feb 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 (AIP) 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 AIP (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)

Phone

+98 21 7758 2816

Email address

f-sayyah@razi.tums.ac.ir

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

Phone

+98 914 116 3143

Fax**Email**

f-sayyah@razi.tums.ac.ir

Web page address**Person responsible for general inquiries****Contact****Name of organization / entity**

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

Full name of responsible person

Dr Forough Sadat Sayyah Meli

Position

Resident

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

Loghman Hakim Hospital

City

Tehran

Postal code**Phone**

+98 914 116 3143

Fax**Email**

f-sayyah@razi.tums.ac.ir

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

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

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Dr Forough Sadat Sayyah Meli

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Fax**Email**

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City

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Postal code**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