

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 May 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*

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**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**

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**Position**

Resident

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

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Loghman Hakim Hospital

**City**

Tehran

**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*