

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Jun 2026

Evaluating Lamotrigine in relapse prevention following intravenous ketamine in 18-65 years old patients with treatment resistant depression in ziaieian hospital in 2013-2014 in a pilot study

Protocol summary

Summary

The aims of this study are to evaluate the effect of intravenous infusion of ketamine in response to treatment of treatment-resistant depression and the effect of oral Lamotrigine maintenance therapy after intravenous infusion of ketamine. The study was designed as a randomized, double blind, placebo-controlled, single-center, and phase II clinical trial. 30 patients will choose from 18 to 65 years old patients, who admitted to the Psychiatric Clinic of Ziaieian hospital based on inclusion criteria. Inclusion criteria are: 18 to 65 years old patients with treatment resistant depression, the current episode of depression lasting at least 4 to 6 weeks, be at least at the second stage of TRD. And also HDRS score of 21 with Hamilton scoring is higher or equal to 18. Exclusion criteria are: Patients with depression secondary to medical illness, drug or alcohol abuse, pregnant or lactating women, patients with medical or psychiatric comorbidities, patients with a known history of intolerance or sensitivity to ketamine, patients at serious risk of suicide and homicide, patients with obstructive sleep apnea or a history of difficult airway management in previous anesthesia, patients treated with MAO irreversible inhibitors during the two weeks prior to the intervention, and in general, patients with clearly abnormal findings in laboratory tests, physical examination, or electrocardiogram. The diagnosis is based on interviews by two psychiatrists on DSMIV criteria. The depression levels will determine based on Hamilton Depression Inventory. Consent from clients who have volunteered to participate in the research will done, the patient will continue their previous medications. After arriving at the operating room, patients will receive standard monitoring include pulse oxymetry, ECG, NIBP. An IV line number 20 will be placed. For patients, 0 / 5mg / kg ketamine based on ideal body weight (IBW) will infuse over 40 minutes.

Patients will be monitored for 24 hours in the ward. Patients will complete the Hamilton questionnaire 60 minutes before the intervention, and also, 120 min, 240 min and 24 and 72 hours after intervention. Patients who responding in this stage while continue previous medications will randomly divide into two groups (Intervention/Control). The intervention group will be treated with oral Lamotrigine (25 mg daily for first and second week, 50 mg daily for third and fourth week, 100 mg daily for fifth week and 200 mg daily for the sixth week). Control group will receive placebo for 6 weeks. Both groups will complete Hamilton questionnaire every week up to 6 weeks. Then two intervention and control groups will be compared in terms of scoring.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013110415276N1**

Registration date: **2014-09-26, 1393/07/04**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-09-26, 1393/07/04

Registrant information

Name

Mohammad Effatpanah

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 5574 5975

Email address

m-effatpanah@tums.ac.ir

Recruitment status**Recruitment complete****Funding source**

institution

Expected recruitment start date

2014-09-23, 1393/07/01

Expected recruitment end date

2015-03-20, 1393/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating Lamotrigine in relapse prevention following intravenous ketamine in 18-65 years old patients with treatment resistant depression in ziaei hospital in 2013-2014 in a pilot study

Public title

Effect of lamotrigine in relapse prevention following intravenous ketamine in depression

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1- patients 18 to 65 years 2- be able to understand the intervention 3- submit their written consent. 4- Being infected with treatment-resistant depression diagnosed by a psychiatrist. 5- current depressive episode lasting 4 to 6 weeks. 6- Be at least at the second stage of TRD (Failure to respond to antidepressant treatment with 2 drug families in the current episode based on Antidepressant Treatment History Form). 7- HDRS score of 21 with Hamilton scoring is higher or equal to 18. 8- Women of reproductive age have negative β HCG and use reliable method of contraception during the study period. Exclusion criteria: 1- patients with depression secondary to medical illness, drug or alcohol abuser (except nicotine and caffeine) according to the criteria of DSMIV. 2- pregnant or lactating women. 3- patients with a history of seizure disorder other than epilepsy and fever. 4- patients with a known history of intolerance or sensitivity to ketamine and lamotrigine. 5- patients with diagnosis of schizophrenia and bipolar disorder, and psychotic signs. 6- patients with Tourette syndrome, autism and mental retardation. 7- patients at serious risk of suicide and homicide. 8- patients with obstructive sleep apnea or a history of difficult airway management in previous anesthesia. 9- patients treated with MAO irreversible inhibitors during the two weeks prior to the intervention. 10- patients with clinical and laboratory evidence of medical disorders, such as impaired hepatic or renal function, coronary disease, cerebrovascular disease, viral hepatitis B and C, acquired immunodeficiency syndrome, diabetes mellitus, uncontrolled hypertension, unmodified hypothyroidism or hyperthyroidism, neurological, immunological or hematologic disorders and in general, patients with clearly abnormal findings in laboratory tests, physical examination, or electrocardiogram.

AgeFrom **18 years** old to **65 years** old**Gender**

Both

Phase

2

Groups that have been masked*No information***Sample size**Target sample size: **30****Randomization (investigator's opinion)**

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of Tehran University of Medical Sciences

Street address

6th floor, central building of university, Qods st, Keshavarz blv

City

Tehran

Postal code**Approval date**

2014-08-31, 1393/06/09

Ethics committee reference number

۱۳۰/۱۱۴۵/۹۳/ص

Health conditions studied**1****Description of health condition studied**

Treatment - Resistant Depression

ICD-10 code

F32.1 & F3

ICD-10 code description

Severe depressive episode without psychotic symptoms and Moderate depressive episode

Primary outcomes

1

Description

Depression rating scale

Timepoint

60 minute before the intervention,120 minute,240 minute, 24 and 72 hours after intervention. then once per week up to 6 weeks

Method of measurement

Hamilton Depression Inventory

Secondary outcomes

empty

Intervention groups

1

Description

Infusion of intravenous Ketamine vials 0/5 mg per Kg of ideal body weight during the 40-minute . oral Lamotrigine tablet 25 mg daily for first and second week,then 50 mg daily for third and fourth week,then 100 mg daily for fifth week and then 200 mg daily for the sixth week for intervention group.

Category

Treatment - Drugs

2

Description

Infusion of intravenous Ketamine vials 0/5 mg per Kg of ideal body weight during the 40-minute . oral placebo tablet daily up to 6 week for control group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ziaeian Hospital

Full name of responsible person

Dr. Mohammad Effatpanah

Street address

Ziaeian Hospital. Opposite Municipality. Abouzar St.

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Tehran University of Medical Sciences

Full name of responsible person

Dr. Masoud Yunesian

Street address

6th floor, Central building of university, Qods st, Keshavarz blv

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, 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

Mohammad Effatpanah

Position

Fellowship in Child & Adolescent Psychiatry _
Assistant professor

Other areas of specialty/work

Street address

Ziyaeyan Hospital, Opposite Municipality, Abouzar St.

City

Tehran

Postal code

1366736511

Phone

+98 21 5574 5975

Fax

Email

m.effatpanah@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mohammad Effatpanah

Position

Fellowship in Child & Adolescent Psychiatry _
Assistant professor

Other areas of specialty/work

Street address

Ziyaeyan Hospital. Opposite Municipality. Abouzar St.

City

Tehran

Postal code

1366736511

Phone

+98 21 5517 6813

Fax

Email

m.effatpanah@gmail.com

Web page address

www.ziaeian.ir

City

Tehran

Postal code

1366736511

Phone

+98 21 5574 5975

Fax

+98 21 5574 5975

Email

ali_r_mahjoub@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Tehran University of Medical Sciences, International Campus

Full name of responsible person

Alireza Mahjoub

Position

Medical student

Other areas of specialty/work

Street address

Student Research Center of International campus.
Ziaeian Hospital. Opposite Municipality. Abouzar St.

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