

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jul 2026

Effect of Riluzole on cognitive function of patients with mild Alzheimers disease: a double-blind randomized clinical trial, placebo-controlled

Protocol summary

Study aim

Study of the effect of Riluzole on the cognitive function of patients with mild Alzheimer's disease

Design

This study is a randomized clinical trial, placebo-controlled, double-blind that will be conducted between 2018 -2019. study population is the patient with mild Alzheimer's disease, aged 60-80 years old. A total of 48 patients are randomly divided into two equal groups of placebo and main drug group. Randomization will be done by using the four block size.

Settings and conduct

Patients referred to Shariati Hospital's neurology clinic and private neurology clinic who are eligible for study are randomly divided into two groups of main drug and placebo. The intervention group received 50 mg oral Riluzole tablets twice a day for three months and the placebo group received in the same way . Patients will be evaluated in terms of disease progression, cognitive function, and memory performance on day one and 90th of study . They are also considered for drug side effects during the study. Patients and the main investigators who measure the outcomes will be blinded to The type of medication .

Participants/Inclusion and exclusion criteria

Patients with mild Alzheimer's disease aged 60-80 years old who received one of the FDA approved anticholinesterase drugs for Alzheimer's treatment from three months ago, will be included in the study, and patients with a history of other types of dementia and other neurological diseases and major psychiatric disorders, and history of hypertension and Uncontrolled diabetes will not be included in the study

Intervention groups

Intervention includes the administration of oral tablets of Riluzole in intervention group and the administration of placebo tablets in the control group.

Main outcome variables

Evaluation of cognitive function; memory performance

and progression of Alzheimer's disease are the main outcomes of the study

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20100126003181N4**

Registration date: **2018-03-01, 1396/12/10**

Registration timing: **prospective**

Last update: **2018-03-01, 1396/12/10**

Update count: **0**

Registration date

2018-03-01, 1396/12/10

Registrant information

Name

Zahra Mokhtari

Name of organization / entity

Otorhinolaryngology research center, Tehran university of medical sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-04-21, 1397/02/01

Expected recruitment end date

2019-10-23, 1398/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Riluzole on cognitive function of patients with mild Alzheimers disease: a double-blind randomized clinical trial, placebo-controlled

Public title

Effect of Riluzole on Alzheimer's Disease

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Having of mild type of Alzheimer's Disease Receiving one of the anticholinesterase drugs for treating Alzheimer's from three months ago aged between 60-80

Exclusion criteria:

Having any other type of Dementia Any history of using Memantine or Riluzole History of using medications with glutamatergic interaction History of alcohol and opium abuse History of diseases such as Parkinson's disease, epilepsy, stroke, high blood pressure, uncontrolled diabetes, MS, mental retardation, CNS tumors, Huntington, subdural Hematoma, history of major psychiatric diseases History of severe head trauma that results in loss of consciousness

Age

From **60 years** old to **80 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor

Sample size

Target sample size: **48**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization will be done by 4 block size.

Blinding (investigator's opinion)

Double blinded

Blinding description

Since the placebo is exactly the same as the original medicine, and when informed consent is informed, the patient is randomly assigned to one of the drug or placebo groups, so the patient is not aware of the type of medication. Also, the main investigator who examined the initial outcome will be blind to patient's drug type, because the allocation is done by Secretary of the clinic.

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

Vice Chancellor for research, Tehran University of Medical Sciences, Ghods St, Keshavarz Blvd

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1417653761

Approval date

2018-02-03, 1396/11/14

Ethics committee reference number

IR.TUMS.MEDICINE.REC.1396.4403

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

Alzheimer Disease

ICD-10 code

G30

ICD-10 code description

Alzheimer's disease

Primary outcomes**1****Description**

Cognitive function assessment

Timepoint

The first day and the 90th day of study

Method of measurement

Using the test of Mini Mental State Examination (MMSE)

2**Description**

Assessment of memory

Timepoint

The first day and the 90th day of study

Method of measurement

Using the test of Delayed recall test

3**Description**

Assessment of disease progression

Timepoint

The first day and the 90th day of study

Method of measurement

Using the Functional Assessment Staging Tool (FAST)

Secondary outcomes

1

Description

Drug side effect

Timepoint

fourth week

Method of measurement

ask from patient

Intervention groups

1

Description

Intervention group: Riluzole 50 mg oral tablet twice daily for three months

Category

Treatment - Drugs

2

Description

Control group: Placebo (similar to the original drug) oral twice daily for three months

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Shariati hospital

Full name of responsible person

Dr. Farzad Fatehi

Street address

North Kargar Ave. Shariati hospital

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2

Recruitment center

Name of recruitment center

private Clinic of Neurology

Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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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

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Dr. Zahra Mokhtari

Position

PhD of Medical Physiology

Latest degree

Ph.D.

Other areas of specialty/work

Physiology

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable