Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effects of temporary clips on somatosensory evoked potentials in anterior circulation of brain aneurysm surgery

Protocol summary

Study aim
Effects of temporary clips on somatosensory evoked potentials in anterior circulation of brain aneurysm surgery
Design
The design of the study is a clinical trial with no control group and for 10 patients the intervention is done and blindness is not done.
Settings and conduct
In this research, all patients referred to the Hazrat Rasoul Akram hospital, who suffered from brain aneurysm will be enrolled. Effects of temporary clips on somatosensory evoked potentials in anterior circulation of brain aneurysm surgery will be investigated.
Participants/Inclusion and exclusion criteria
All patients referred to Rasoul Akram Hospital, who suffered from brain aneurysm, will be enrolled. Inclusion criteria: The patient's aneurysm is only related to the anterior circulation of the brain. Exclusion criteria: Patient with history of stroke, The patient with history of previous aneurysm surgery.
Intervention groups
The intervention is a temporary clips in anterior circulation of brain aneurysm surgery.
Main outcome variables
The amount of changes in brain electrical potential, The duration of blockage of the arteries with clips, Stroke

General information

Reason for update
Acronym
IRCT registration information
IRCT registration number: **IRCT20171124037606N2**
Registration date: **2019-01-23, 1397/11/03**
Registration timing: **prospective**

Last update: **2019-01-23, 1397/11/03**
Update count: **0**
Registration date
2019-01-23, 1397/11/03

Registrant information
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Name of organization / entity
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Recruitment status
Recruitment complete
Funding source

Expected recruitment start date
2019-02-04, 1397/11/15
Expected recruitment end date
2019-06-20, 1398/03/30
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Effects of temporary clips on somatosensory evoked potentials in anterior circulation of brain aneurysm surgery

Public title
Effects of temporary somatosensory evoked potentials in brain aneurysm
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:

The patient's aneurysm is only related to the anterior circulation of the brain

Exclusion criteria:

Patient with history of stroke The patient with history of previous brain aneurysm surgery

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **10**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Iran University of Medical Sciences

Street address

Iran University of Medical Sciences, Hemmat Highway, Tehran

City

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Province

Tehran

Postal code

1449614535

Approval date

2018-12-22, 1397/10/01

Ethics committee reference number

IR.IUMS.FMD.REC.1397.112

Health conditions studied

1

Description of health condition studied

Cerebral aneurysm

ICD-10 code

I67.1

ICD-10 code description

Cerebral aneurysm, nonruptured

Primary outcomes

1

Description

The amount of changes in brain electrical potential

Timepoint

Every 10 seconds

Method of measurement

With Somatosensory Evoked Potentials

2

Description

The duration of blockage of the arteries with clips

Timepoint

Continuously, from the time the clips is put up to remove it

Method of measurement

Based on patient records

3

Description

Stroke

Timepoint

During operation, after the completion of surgery, 3 days, 1 week and one month after surgery

Method of measurement

Based on patient records

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: temporary clips in anterior circulation of brain aneurysm surgery

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrat Rasoul Akram hospital

Full name of responsible person

Alireza Tabibkhooei

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Hazrate Rasool hospital, Niyayesh street, Sattarkhan

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Sponsors / Funding sources

1

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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
Iran 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
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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

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

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

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

Data Dictionary

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