

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

Comparison of efficiency and side effects of Adenosine versus Verapamil in treatment of Paroxysmal supraventricular tachycardia (psvt)

Protocol summary

Study aim

Comparison of efficiency and side effects of Adenosine versus Verapamil in treatment of Paroxysmal Supraventricular Tachycardia (PSVT)

Design

This study was designed as a single-blind clinical trial with a sample size of 180 patients with Paroxysmal Supraventricular Tachycardia (PSVT). Patients were randomly divided into control and intervention groups WITH using sealed envelopes receiving adenosine and verapamil using sealed envelopes.

Settings and conduct

Patients with Paroxysmal Supraventricular Tachycardia (PSVT) aged between 18 and 50 years were enrolled the study. exclusion criteria were History of Calcium blocker usage, history of Adenosine blocker agents usages, Brain hypo-perfusion, abnormal psychological state, pulmonary edema, pregnancy, history of Asthma, hypotension ,cardiogenic shock, heart failure, Wolff Parkinson White syndrome (WPW).

Participants/Inclusion and exclusion criteria

Patients with Paroxysmal Supraventricular Tachycardia (PSVT) aged between 18 and 50 years were enrolled the study. exclusion criteria were History of Calcium channel blocker usage, history of Adenosine blocker agents usages, Brain hypo-perfusion, abnormal psychological state, pulmonary edema, pregnancy, history of Asthma, hypotension ,cardiogenic shock, heart failure, Wolff Parkinson White syndrome (WPW).

Intervention groups

Intervention group: 6 mg adenosine intravenous push in patients with Paroxysmal Supraventricular Tachycardia (PSVT) control group: 2.5 mg verapamil in patients with psvt rhythm

Main outcome variables

Rhythm conversion to normal sinus

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200202046343N1**

Registration date: **2020-04-29, 1399/02/10**

Registration timing: **retrospective**

Last update: **2020-04-29, 1399/02/10**

Update count: **0**

Registration date

2020-04-29, 1399/02/10

Registrant information

Name

setareh tavakkoli jebelli

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3501 4008

Email address

tavakkolis961@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-03-09, 1398/12/19

Expected recruitment end date

2020-04-23, 1399/02/04

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of efficiency and side effects of Adenosine versus Verapamil in treatment of Paroxysmal supraventricular tachycardia (psvt)

Public title

Adenosine versus Verapamil in Paroxysmal Supraventricular Tachycardia (PSVT)

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with Paroxysmal Supraventricular Tachycardia (PSVT) aged between 18 and 50 years.

Exclusion criteria:

History of Calcium blocker usage
History of Adenosine blocker agents usages
Brain hypo-perfusion
Abnormal psychological state
Pulmonary edema
Pregnancy
History of Asthma
Hypotension
Cardiogenic shock
Heart failure
Wolff Parkinson White syndrome (WPW)

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

1-2

Groups that have been masked

- Participant
- Outcome assessor
- Data analyser
- Data and Safety Monitoring Board

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Method of randomization: Stratified Unit of randomization: Individual Tools used in randomization: Sealed envelopes Allocation concealment: Sealed envelopes

Blinding (investigator's opinion)

Single blinded

Blinding description

Participants, data collectors, outcome assessors, and importance Data Safety and Monitoring Board and manuscript writers were blinded about the the allocation of study groups.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of mashhad University of Medical Sciences

Street address

Qoreishi Building, Daneshgah Street, Vice Chancellor for Research of Mashhad University of Medical Sciences, Mashhad, Iran

City

Mashhad

Province

Razavi Khorasan

Postal code

9189833118

Approval date

2019-02-12, 1397/11/23

Ethics committee reference number

ir.mums.medical.rec.1398.496

Health conditions studied

1

Description of health condition studied

Paroxysmal supraventricular tachycardia (psvt)

ICD-10 code

147

ICD-10 code description

Abnormally rapid heartbeats with sudden onset and cessation

Primary outcomes

1

Description

Rhythm conversion to normal sinuous

Timepoint

After 5 minutes of drug administration

Method of measurement

Electrocardiography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: 6 mg adenosine intravenous push

Category

Treatment - Drugs

2

Description

Control group: 5 mg verapamil intravenous push

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza hospital

Full name of responsible person

Setare Tavakkoli Jebeli

Street address

Emam Reza Hospital, Dr. Shariati Square

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2

Recruitment center

Name of recruitment center

Ghaem Hospital

Full name of responsible person

Setare Tavakkoli Jebeli

Street address

Ghaem Hospital, Dr. Shariati Square, beginning of Ahmadabad Avenue,

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Mohsen Tafaghodi

Street address

Qoreishi Building, Daneshgah Street, Vice Chancellor for Research of Mashhad University of Medical Sciences, Mashhad, Iran

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Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

No

Title of funding source

Vice Chancellor for Research of Mashhad University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Private

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

Mashhad University of Medical Sciences

Full name of responsible person

Setareh Tavakkoli Jebeli

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Emergency Medicine

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Person responsible for scientific inquiries

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Position

Resident

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is 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

Yes - There is 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

Title and more details about the data/document

All potential data can be shared after unidentifiable participant.

When the data will become available and for how long

Data will be available 6 months after publication

To whom data/document is available

People working in academic institution

Under which criteria data/document could be used

Not applicable

From where data/document is obtainable

Setare Tavakkoli Jebeli Tavakkolis961@mums.ac.ir

What processes are involved for a request to access data/document

Not applicable

Comments