

# 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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**Email**

tavakkolis961@mums.ac.ir

### 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

**Street address**

Emam Reza Hospital, Emam Reza Square, Ebne Sina Avenue, Mashhad, Iran

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## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

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**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

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**Position**

Resident

**Latest degree**

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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**