

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jun 2026

Evaluation of the effect of ablation technique with radiofrequency waveforms in the treatment of supraventricular arrhythmia

Protocol summary

Study aim

Evaluation of the effect of ablation technique with radiofrequency waveforms in the treatment of supraventricular arrhythmia

Design

Phase IV clinical trial with one intervention group without control group, consisted of 80 participants

Settings and conduct

After undergoing primary electrophysiologic examination to determine the type of supraventricular tachyarrhythmia and the target points, patients referring to Ayatollah Rohani Hospital in Babol will be subjected to ablation. The radio frequency energy will be generated by a generator that produced continuous flow with a frequency of 500 Hz. For ablation, the radiofrequency flow will be applied to target points for 10 minutes at 30 watts.

Participants/Inclusion and exclusion criteria

Inclusion criteria: symptomatic and life threatening tachyarrhythmias, resistant to drug therapy or drug-related adverse events. Exclusion criteria: Patients with valvulopathy, tachycardia less than once a week, atrial fibrillation or atrial flutter, and pregnancy

Intervention groups

Application of radiofrequency flow with power of 30 watts at target location for 10 minutes

Main outcome variables

AV block; stroke; pneumothorax; deep vein thrombosis

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160926029976N5**

Registration date: **2019-06-09, 1398/03/19**

Registration timing: **registered_while_recruiting**

Last update: **2019-06-09, 1398/03/19**

Update count: **0**

Registration date

2019-06-09, 1398/03/19

Registrant information

Name

Reza Mohseni Ahangar

Name of organization / entity

Babol University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3223 8301

Email address

r.mohseni@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-01-21, 1397/11/01

Expected recruitment end date

2020-01-21, 1398/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of ablation technique with radiofrequency waveforms in the treatment of supraventricular arrhythmia

Public title

Evaluation of ablation in the treatment of arrhythmia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Symptomatic, life-threatening tachyarrhythmia that is resistant to drug therapy Symptomatic, life-threatening tachyarrhythmia that has adverse effects of drug

Exclusion criteria:

Cardiac valvular disease Tachycardia period less than once a week Atrial fibrillation Pregnancy Atrial Flutter

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 80

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 Babol University of Medical Sciences

Street address

Babol University of Medical Sciences, Parastar Square, Keshavarz street, Babol

City

Babol

Province

Mazandaran

Postal code

4717995915

Approval date

2019-01-20, 1397/10/30

Ethics committee reference number

IR.MUBABOL.HRI.REC.1397.260

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

Supraventricular tachyarrhythmia

ICD-10 code

I47.1

ICD-10 code description

Supraventricular tachycardia

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

Atrioventricular block

Timepoint

Evaluation of atrioventricular block 3 months after intervention

Method of measurement

Electrocardiogram

2**Description**

Pneumothorax

Timepoint

Evaluation of pneumothorax 3 months after intervention

Method of measurement

Chest X ray

3**Description**

Deep vein thrombosis

Timepoint

Evaluation of deep vein thrombosis 3 months after intervention

Method of measurement

Doppler ultrasonography of lower extremities

4**Description**

Stroke

Timepoint

Evaluation of stroke 3 months after intervention

Method of measurement

physical examination and brain magnetic resonance imaging

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: After undergoing primary electrophysiologic examination to determine the type of supraventricular tachyarrhythmia and determine the target points, patients are subjected to ablation. The radio frequency energy will be generated by a generator that produced continuous flow with a frequency of 500 Hz. For ablation, the radiofrequency flow will be applied to target locations for 10 minutes at 30 watts.

Category

Treatment - Other

Recruitment centers1**Recruitment center****Name of recruitment center**

Ayatollah Rohani hospital

Full name of responsible person

Mahsa Akbarian

Street address

Parastar square, Keshavarz boulevard

City

Babol

Province

Mazandaran

Postal code

47176-47745

Phone

+98 11 3223 8309

Email

Akbarian_mahsa@yahoo.com

Sponsors / Funding sources1**Sponsor****Name of organization / entity**Vice Chancellor For Research, Babol University Of
Medical Sciences**Full name of responsible person**

Reza Ghadimi

Street addressBabol University Of Medical Sciences, Parastar
square, Keshavarz blvd**City**

Babol

Province

Mazandaran

Postal code

4717647754

Phone

+98 11 3219 7667

Email

rezaghadimi@yahoo.com

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

Yes

Title of funding sourceVice Chancellor For Research, Babol 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**

Babol University of Medical Sciences

Full name of responsible person

Mahsa Akbarian

Position

Residency of Cardiology

Latest degree

Medical doctor

Other areas of specialty/work

Cardiology

Street address

Rouhani Hospital, Ganjafrooz Street

City

Babol

Province

Mazandaran

Postal code

4717647745

Phone

+98 11 3223 8301

Fax**Email**

Akbarian_mahsa@yahoo.com

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

Babol University of Medical Sciences

Full name of responsible person

Mahsa Akbarian

Position

Residency in cardiology

Latest degree

Medical doctor

Other areas of specialty/work

Cardiology

Street address

Rouhani Hospital, Ganjafrooz Street, Babol

City

Babol

Province

Mazandaran

Postal code

4717647745

Phone

+98 11 3223 8301

Fax**Email**

Akbarian_mahsa@yahoo.com

Person responsible for updating data

r.mohseni@mubabol.ac.ir

Contact

Name of organization / entity

Bagheiat-allah University of Medical Sciences

Full name of responsible person

Reza Mohseni Ahangar

Position

fellowship in pulmonology

Latest degree

Specialist

Other areas of specialty/work

Internal Medicine

Street address

Rouhani Hospital, Ganjafrooz Street, Babol

City

Babol

Province

Mazandaran

Postal code

4717647745

Phone

+98 11 3223 8301

Fax**Email**

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