

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jul 2026

Investigation of effectiveness of radiofrequency ablation in beta thalassemia patients, considering hematologic parameters

Protocol summary

Summary

In this study, we investigated the efficacy and safety of RF ablation in hematological parameters (rise of Platelet and hemoglobin, need of blood transfusion) in patients with Thalassemia Intermedia (TI). Inclusion criteria was presence of Cooley's anemia in patients and exclusion criteria was positive Coomb's test. RF ablation of spleen had been performed in 15 TI children under general anesthesia using a Cooltip Radionics RF probe. These patients have been regarded as RFA group. Nine patients with TI who underwent partial splenectomy during the last 3 years and another 14 patient group with TI who underwent total splenectomy during 3 years prior to study, were also enrolled as the first and second control groups (CG1 and CG2).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138712141738N1**

Registration date: **2009-05-29, 1388/03/08**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2009-05-29, 1388/03/08

Registrant information

Name

Mehdi Naderifar

Name of organization / entity

Shiraz University of Medical Science

Country

Iran (Islamic Republic of)

Phone

+98 71 1647 3233

Email address

nabavia@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences

Expected recruitment start date

2008-07-20, 1387/04/30

Expected recruitment end date

2009-01-20, 1387/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigation of effectiveness of radiofrequency ablation in beta thalassemia patients, considering hematologic parameters

Public title

Investigation of effectiveness of radiofrequency ablation in beta thalassemia patients, considering hematologic parameters

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: beta thalassemia Exclusion criteria: positive direct or indirect coombs

Age

From **5 years** old to **20 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size
Target sample size: 38

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shiraz University of Medical Sciences Ethics committee

Street address

Shiraz University of Medical Sciences

City

Shiraz

Postal code

Approval date

2008-07-20, 1387/04/30

Ethics committee reference number

CT-87-4150

Health conditions studied

1

Description of health condition studied

Beta thalassemia

ICD-10 code

D56.1

ICD-10 code description

Cooley's anaemia

Primary outcomes

1

Description

Level of Hb

Timepoint

3 month follow-up period

Method of measurement

CBC

2

Description

Platelet count

Timepoint

3 month follow-up period

Method of measurement

CBC

Secondary outcomes

1

Description

Need to transfusion

Timepoint

3 months follow-up period

Method of measurement

transfusion volume and intervals

Intervention groups

1

Description

Radiofrequency ablation of spleen in beta thalassemia using Cooltip Radionics RF Probe.

Category

Other

2

Description

Partial splenectomy

Category

Treatment - Surgery

3

Description

Total splenectomy

Category

empty

Recruitment centers

1

Recruitment center

Name of recruitment center

Namazee Hospital

Full name of responsible person

Mehdi Naderifar

Street address

Radiology Ward, Namazee Hospital

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Street address

Shiraz University of Medical Sciences, Zand Ave.

City

Shiraz

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

Yes

Title of funding source

Shiraz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

empty

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

Shiraz University of Medical Sciences

Full name of responsible person

Mehdi Naderifar

Position

Radiology resident

Other areas of specialty/work**Street address**

Radiology Ward, Namazee Hospital

City

Shiraz

Postal code**Phone**

+98 71 1647 3233

Fax

+98 71 1647 3233

Email

mehdinaderifar2000@yahoo.com

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

SUMS

Full name of responsible person

Ali Reza Rasekhi

Position

Associate Professor

Other areas of specialty/work**Street address**

Radiology Ward, Namazee Hospital

City

Shiraz

Postal code**Phone**

+98 71 1647 3233

Fax

+98 71 1647 3233

Email

mehdinaderifar2000@yahoo.com

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Shiraz University of Medical Sciences

Full name of responsible person

Mehdi Naderifar

Position

Resident

Other areas of specialty/work**Street address**

Radiology Ward, Namazee Hospital

City

Shiraz

Postal code**Phone**

+98 71 1647 3233

Fax

+98 71 1647 3233

Email

mehdinaderifar2000@yahoo.com

Web page address**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty