

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Perinatal outcome and Growth after radiofrequency ablation in complicated monochorion diamnion twin pregnancies (Yas Hospital-Tehran University of Medical Sciences)

Protocol summary

Study aim

Evaluation of the consequences of Radio-frequency in complicated monochorion diamnion pregnancies, with one twin with IUGR or TTTS or TRAP or anomaly.

Design

This is a prospective intervention study with single group. In this study, MCDA pregnancies complicated with IUGR or TTTS or anomalies or TRAP, encounter with FR waves and followed up by pregnancy outcomes.

Settings and conduct

Location: Yas Hospital, Tehran, Iran. Pregnant women with MCDA twin suffering from complicated pregnancies candidate for using radio frequency waveform.

Participants/Inclusion and exclusion criteria

Complicated monochorion diamnion pregnancies, with one twin with IUGR or TTTS or TRAP or anomaly.

Intervention groups

The use of radio frequency waves in reducing complicated twin in monochorion diamnion pregnancies

Main outcome variables

Increasing the chances of survival and health in uncomplicated twin

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180409039247N1**
Registration date: **2018-08-19, 1397/05/28**
Registration timing: **registered_while_recruiting**

Last update: **2018-08-19, 1397/05/28**

Update count: **0**

Registration date

2018-08-19, 1397/05/28

Registrant information

Name

Marjan Ghaemibidgoli

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 8800 4858

Email address

m_ghaemi@razi.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-05-22, 1397/03/01

Expected recruitment end date

2018-09-23, 1397/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Perinatal outcome and Growth after radiofrequency ablation in complicated monochorion diamnion twin pregnancies (Yas Hospital-Tehran University of Medical Sciences)

Public title

Perinatal outcome and Growth after radiofrequency ablation in complicated monochorion diamnion twin pregnancies (Yas Hospital-Tehran University of Medical Sciences)

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Dichorion diamniotic twin Including IUGR or TTTS, or one twin Anomalie or TRAP

Exclusion criteria:

Dissatisfaction with entering the study

Age

No age limit

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 110

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, Research Vice-President of Tehran University of Medical Sciences

Street address

Yas hospital, North Villa street, Tehran , Iran

City

Tehran

Province

Tehran

Postal code

12123

Approval date

2018-03-10, 1396/12/19

Ethics committee reference number

IR.TUMS.VCR.REC.1396.4772

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

IUGR; TRAP sequence, TTTS; anomaly of one twin

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

The main consequence is increase in the survival of the unaffected twin in twin MCDA pregnancies which one twin reduced with radio frequency waves.

Timepoint

Evaluation will be performed immediately after the RF and one after the delivery, which implies neonatal outcomes through questionnaire

Method of measurement

questionnaire

Secondary outcomes

empty

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

Intervention group: The use of radio frequency waves in reducing complicated twin in MCDA twins

Category

Treatment - Other

Recruitment centers**1****Recruitment center****Name of recruitment center**

Yas hospital

Full name of responsible person

Marjan Ghaemi Bidgoli

Street address

Yas hospital, North Villa street, Tehran , Iran

City

Tehran

Province

Tehran

Postal code

13312

Phone

+98 21 8885 3138

Email

Marjan_ghaemi@yahoo.com

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Tehran University of Medical Sciences

Full name of responsible person

Dr. Sahraeeian

Street address

Tehran University of Medical Sciences, Ghods St.,

Keshavarz Blvd.
City
 Tehran
Province
 Tehran
Postal code
 13231
Phone
 +98 21 8163 3698
Email
 ehealthsw@tums.ac.ir
Web page address
 http://vcr.tums.ac.ir/
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Tehran 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
 Tehran University of Medical Sciences
Full name of responsible person
 Marjan Ghaemi Bidgoli
Position
 resident
Latest degree
 Medical doctor
Other areas of specialty/work
 Gynecology and Obstetrics
Street address
 Yas hospital, North Villa street
City
 Tehran
Province
 Tehran
Postal code
 131234
Phone
 +98 21 8885 3138
Email
 majan_ghaemi@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
 Tehran University of Medical Sciences
Full name of responsible person
 Marjan Ghaemi Bidgoli
Position
 resident
Latest degree
 Medical doctor
Other areas of specialty/work
 Gynecology and Obstetrics
Street address
 Yas hospital, North Villa street
City
 Tehran
Province
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Postal code
 131234
Phone
 +98 21 8885 3138
Email
 majan_ghaemi@yahoo.com

Person responsible for updating data

Contact
Name of organization / entity
 Tehran University of Medical Sciences
Full name of responsible person
 Marjan Ghaemi Bidgoli
Position
 resident
Latest degree
 Medical doctor
Other areas of specialty/work
 Gynecology and Obstetrics
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 majan_ghaemi@yahoo.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

Not disclosing the identity of the participants

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