

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Aug 2026

Determining the Preventive Effect of Carvedilol on Reducing Trastuzumab Cardiac Complications in Patients With Early Stages of HER2-Breast Cancer

Protocol summary

Study aim

Determining the preventive effect of Carvedilol on reducing Trastuzumab cardiac complications in patients with early stages of HER2-Breast cancer

Design

Clinical trial phase3 two groups(30-30) parallel, outcome assessor blinded

Settings and conduct

60 patients with primary breast cancer who are candidates for chemo-therapy with Adrenocorticotrophic hormone (AC-TH) are underway at the Department of Oncology at Sina Hospital, will be randomly divided into intervention and control groups. Carvedilol 3,125 mg twice daily in the intervention group lasts for about one year during the adjuvant treatment with herceptin. Basic echocardiography (after the end of the anthracycline regimen) and then at the end of sessions 4, 8, 12, and one month after the end of Herceptin treatment regimen will be used to evaluate the Ejection Fraction (EF).

Participants/Inclusion and exclusion criteria

Inclusion criteria: recently diagnosed breast cancer with early stages and eligible for adjuvant treatment with trastuzumab Exclusion: History of heart diseases, Contraindication of treatment with or receiving beta-blocker drugs; uncontrolled blood pressure; history of radiotherapy or chemotherapy to the chest; renal disorder

Intervention groups

Intervention group: taking Carvedilol Comparison group: not taking Carvedilol (routine care)

Main outcome variables

left ventricular ejection fraction (LVEF) Metastases

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190628044046N1**

Registration date: **2020-03-12, 1398/12/22**

Registration timing: **registered_while_recruiting**

Last update: **2020-03-12, 1398/12/22**

Update count: **0**

Registration date

2020-03-12, 1398/12/22

Registrant information

Name

Mina Naderi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 7786 5654

Email address

mina.naderi89@icloud.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-26, 1398/04/05

Expected recruitment end date

2020-08-20, 1399/05/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Determining the Preventive Effect of Carvedilol on Reducing Trastuzumab Cardiac Complications in

Public title

Effect of Carvedilol on Reducing Transtosomab Cardiac Complications

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Patients who have recently been diagnosed with breast cancer (HER2-overexpressing) (stage I to IIIA) and are candidates for adjuvant treatment with trastuzumab. The ability to have an informed consent.

Exclusion criteria:

Left Ventricular Ejection Fraction (LVEF) baseline less than 50%, history of heart failure. Contraindication of treatment with or receiving drugs for beta blocker(BB). cardiomyopathy or valvular heart disease, myocardial infarction, uncontrolled blood pressure. history of radiotherapy or chest chemotherapy to the chest. filtration Glomerular volume 30 mL / min / 1.73 m2, which is calculated using the Modification of Diet in Renal Disease (MDRD)method.

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

- Outcome assessor

Sample size

Target sample size: 60

Randomization (investigator's opinion)

Randomized

Randomization description

Simple individual randomization, without stratification, produced by Excel (Microsoft office) (using "Generate random number" order and "if") and providing a table of A(intervention) and B(control) sequence. # =randbetween(1-60) #save as "value" #copy for 60 rows # =if (A1>MEDIAN(A1:A60), 1,0) #copy for 60 rows #Replace "1" by "A" in all #Replace "0" by "B" in all

Blinding (investigator's opinion)

Single blinded

Blinding description

The main outcome(LVEF) assessor(Echo-man) is not aware of intervention groups.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee in Research-Emam Khomeini hospital complex-Tehran University of Medical Sciences

Street address

Emam Khomeini hospital complex- Keshavarz Ave- Gharib street

City

Tehran

Province

Tehran

Postal code

۱۴۱۹۷۳۳۱۴۱

Approval date

2019-06-24, 1398/04/03

Ethics committee reference number

IR.TUMS.IKHC.REC.1398.086

Health conditions studied

1

Description of health condition studied

Trastuzumab related cardiomyopathy

ICD-10 code

I50.1

ICD-10 code description

Left ventricular failure

Primary outcomes

1

Description

left ventricular ejection fraction

Timepoint

The end of the anthracycline chemotherapy and then the end of sessions 4, 8, 12 and one month after the end of Herceptin

Method of measurement

Echocardiography

2

Description

Metastasis

Timepoint

At the end of follow up

Method of measurement

تصویربرداری

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Carvedilol drug with 3.125 mg twice daily and then increasing the dose weekly up to 12.5 mg or up to the tolerance

Category

Prevention

2

Description

Control group: Not taking Carvedilol (Routine care)

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Sina hospital

Full name of responsible person

Mina Naderi

Street address

Imam Khomeini Street, before Hassan Abad Square,
Sina Hospital

City

Tehran

Province

Tehran

Postal code

1136746911

Phone

+98 21 7786 5654

Email

Mina.naderi89@icloud.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Deputy Research and Technology

Street address

Keshavarz Boulevard ; Corner of Quds Street; Central
Organization of Tehran University of Medical Sciences

City

Tehran

Province

Tehran

Postal code

1417653761

Phone

+98 21 8163 3611

Email

rmo@tums.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

No

Title of funding source

sina hospital

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

Mina naderi

Position

Internal medicine resident

Latest degree

Medical doctor

Other areas of specialty/work

Internal Medicine

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Email

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mina naderi

Position

Resident of internal medicine

Latest degree

Medical doctor

Other areas of specialty/work

Internal Medicine

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

Tehran University of Medical Sciences

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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

Yes - There is 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

Title and more details about the data/document

No decision for IPD

When the data will become available and for how long

No decision for IPD

To whom data/document is available

No decision for IPD

Under which criteria data/document could be used

No decision for IPD

From where data/document is obtainable

No decision for IPD

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

No decision for IPD

Comments