

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Sep 2026

Evaluation of the effect of Glucuronic acid on processing of breast cancer disease

Protocol summary

Summary

The Glucuronic acid is an anti-inflammatory agent that belongs to the family of nonsteroidal anti-inflammatory drugs that it has shown the therapeutic effects with the greatest tolerability and safety in various experimental models. The aim of this study is to assess the safety and efficacy of Glucuronic acid in treatment of patients with breast cancer. In this study the most important inclusion criteria are histopathological certain results and tumoral mass existence, and the most important exclusion criteria are existence of infectious diseases and concomitant diseases. In this randomized, controlled trial, 36 patients with breast cancer fulfilling the American College of oncology Diagnostic Criteria will be examined. Patients will be randomly assigned to receive either Glucuronic acid day or conventional drugs (control group, 12 patients) orally for 12 weeks. The tumor size and serum level of CEA and CA15.3, will be evaluated at baseline and 12 weeks after treatment. In this study basically changes of tumor size and serum level of CA15.3 and CEA factors before and after treatment with this drug as the most important results this study will be examined.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017061113739N9**

Registration date: **2017-06-14, 1396/03/24**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2017-06-14, 1396/03/24

Registrant information

Name

Abbas Mirshafiey

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 21 8895 4913

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Recruitment status

Recruitment complete

Funding source

Vice-Chancellor for Research, Tehran University of Medical Sciences

Expected recruitment start date

2017-07-19, 1396/04/28

Expected recruitment end date

2017-12-21, 1396/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of Glucuronic acid on processing of breast cancer disease

Public title

The therapeutic effect of Glucuronic acid in breast cancer patients

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: 30-60 years old patients, Diagnosed with breast cancer according to American College of oncology Diagnostic Criteria after the initial visit by a specialist in cancer surgery and parameters CEA, CA15.3,

CBC and sonography, Each patient must sign written informed consent. Exclusion Criteria: History of fever and Infectious diseases, Positive pregnancy test or Lactation, Other collagen- vascular and auto immune diseases, Patients have enrolled another clinical trial study within last 4 weeks, Other concomitant diseases (Hepatic, renal, haematological, gastrointestinal, endocrine, cardiovascular, pulmonary, neurological or cerebral disease).

Age

From **65 years** old to **35 years** old

Gender

Female

Phase

1-2

Groups that have been masked

No information

Sample size

Target sample size: **36**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tehran University of Medical Sciences

Street address

6th floor, central building of Tehran University of Medical Sciences, On the Corner of Keshavarz Blv

City

Tehran

Postal code

Approval date

2017-06-08, 1396/03/18

Ethics committee reference number

IR.TUMS.IKHC.REC.1396.2544

Health conditions studied

1

Description of health condition studied

Breast Cancer

ICD-10 code

C50.8

ICD-10 code description

Malignant neoplasm: overlapping lesion of breast

2

Description of health condition studied

Breast Cancer

ICD-10 code

C50.2

ICD-10 code description

Malignant neoplasm: upper-inner quadrant of breast

3

Description of health condition studied

Breast Cancer

ICD-10 code

C50.3

ICD-10 code description

Malignant neoplasm: lower-inner quadrant of breast

4

Description of health condition studied

Breast Cancer

ICD-10 code

C50.4

ICD-10 code description

Malignant neoplasm: upper-outer quadrant of breast

5

Description of health condition studied

Breast Cancer

ICD-10 code

C50.5

ICD-10 code description

Malignant neoplasm: lower-outer quadrant of breast

6

Description of health condition studied

Breast Cancer

ICD-10 code

C50.6

ICD-10 code description

Malignant neoplasm: axillary tail of breast

7

Description of health condition studied

Breast Cancer

ICD-10 code

C50.9

ICD-10 code description

Malignant neoplasm: breast, unspecified

8

Description of health condition studied

Breast Cancer

ICD-10 code

C50.0

ICD-10 code description

Malignant neoplasm: nipple and areola

Primary outcomes1**Description**

Feel the mass and tenacity in breast

Timepoint

At baseline and after 12 weeks of treatment

Method of measurement

Examination by specialist

Secondary outcomes1**Description**

Tumor size

Timepoint

At baseline and after 12 weeks of treatment

Method of measurement

Sonography

Intervention groups1**Description**

The intervention group will receive 1500 mg/day (three 500 mg tablets/day) of Glucuronic acid orally for 12 weeks. The Glucuronic acid produced from the decomposition of Alginate powder (a safe, natural substance used in food and pharmaceutical industries) purchased from Sigma Corporation of U.S.A, in central laboratory of immunology department of School of Public Health and Institute of Health Research of Tehran University of Medical Sciences.

Category

Treatment - Drugs

2**Description**

Control group will receive of conventional drugs orally for 12 weeks.

Category

Treatment - Drugs

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

Cancer Institute Of Emam Khomeini Hospital

Full name of responsible person

Dr. Habib allah Mahmodzade (MD. cancer surgeon)

Street address

Cancer Institute, Emam Khomeini Hospital, Keshavarz

blv

City

Tehran

Sponsors / Funding sources1**Sponsor****Name of organization / entity**

Vice-Chancellor for Research, Tehran University of Medical Sciences

Full name of responsible person

Dr. Masood Younesian (MD, PhD, Vice-Chancellor for Research, Tehran University of Medical Sciences)

Street address

6th floor, central building of Tehran University of Medical Sciences, On the Corner of Keshavarz Blvd. and Qods Street, Keshavarz Blvd., Tehran, Iran

City

Tehran

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

Yes

Title of funding source

Vice-Chancellor for Research, Tehran 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**

Department of pathobiology, School of Public Health, Tehran University of Medical Sciences

Full name of responsible person

Dr. Abbas Mirshafiey

Position

PHD - Professor

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

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Tehran University of Medical Sciences

Full name of responsible person

Dr. Abbas Mirshafiey

Position

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

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Person responsible for updating data**Contact****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