Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Assessment of insulin-like growth factor I and its signaling pathways in the serum and the tissue of gastric cancer patients

Protocol summary

Summary

The previous studies showed that the early diagnosis is the best strategy for increasing of the survival of gastric cancer patients. Therefore, investigating of insulin-like growth factor I and its related signaling pathways can significantly improve to early detection of gastric cancer and its treatment. The present study includes 75 patients (40-70 years) with dyspepsia who refer to Imam Khomeini and Rasool-e Akram hospitals from September 2016 until September 2017. The patients will be divided into two groups: non-gastric and gastric cancer patients. Then, 10 cc whole blood and the tumor tissue sample of all the patients will collect under endoscopy procedure. RNA extraction, cDNA synthesis and the quantitative analysis for the genes expression will perform. Evaluations include Helicobacter pylori, gastritis grades, and histopathological assay. In addition, the different stages of gastric cancer according to international system of TNM, serum level of IGF1 and the expression of genes involved in insulin-like growth factor 1 signaling pathway will be assessed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016080318745N10**
Registration date: **2016-08-30, 1395/06/09**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2016-08-30, 1395/06/09

Registrant information

Name

Ali Mohammad Alizadeh

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences and Iran University of Medical Sciences

Expected recruitment start date

2016-08-22, 1395/06/01

Expected recruitment end date

2018-02-20, 1396/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of insulin-like growth factor I and its signaling pathways in the serum and the tissue of gastric cancer patients

Public title

Assessment of serum level of insulin-like growth factor 1 in the Blood of gastric cancer patients

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria include: 40-70 years old patients with dyspepsia; the patients with written consent; the patients with no history of cancer or special disease. Exclusion criteria include: the patients with diabetes type 1 or 2; the patients with obesity; the patients with

smoking.

Age

From **40 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **75**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not 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

Keshavarz Bulvar, Porsina Street

City

Tehran

Postal code

Approval date

2016-04-20, 1395/02/01

Ethics committee reference number

IR.TUMS.REC.1395.2261

Health conditions studied

1

Description of health condition studied

Gastric cancer

ICD-10 code

C16.9

ICD-10 code description

Stomach, unspecified

Primary outcomes

1

Description

Serum level assessment of insulin-like growth factor I

Timepoint

after endoscopy procedure

Method of measurement

Elizza

Secondary outcomes

1

Description

the expression of the genes involved in insulin-like growth factor 1 signaling pathway

Timepoint

One time after sampling

Method of measurement

Real-time PCR

Intervention groups

1

Description

The patients with dyspepsia will be divided into two groups: non-gastric and gastric cancer. After inclusion, 10 cc of whole blood and the tumor tissue sample of all the patients under endoscopy will be collected.

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Cancer Research Center, Cancer Institute of Iran

Full name of responsible person

Dr. Ali Mohammad Alizadeh

Street address

3rd Fl. of Radiotherapy Bldg, Cancer Institute, Imam Khomeini Hospital, Keshavarz Boulevard, Tehran, Iran

City

Tehran

2

Recruitment center

Name of recruitment center

Hospital Rasool Akram

Full name of responsible person

Dr. Shahram Agah

Street address

Hospital Rasool Akram, Mansori St., Niayesh St., Sattarkhan St

City

Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Dr. Uonesian
Street address
Keshavarz Bulvar, Porsina Street.
City
Tehran
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
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

2

Sponsor
Name of organization / entity
Iran University of Medical Sciences
Full name of responsible person
Dr. Mousavi
Street address
Fifth Floor, Iran University of Medical Sciences Hemmat Highway
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Iran University of Medical Sciences
Proportion provided by this source
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
Cancer Research Center, Cancer Institute of Iran
Full name of responsible person
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Position
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Other areas of specialty/work
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Person responsible for updating data

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Web page address

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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