

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jul 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)

Phone

+98 21 6119 2501

Email address

aalizadeh@razi.tums.ac.ir

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

Dr. Ali Mohammad Alizadeh

Position

Assistant Professor

Other areas of specialty/work

Street address

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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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

Contact

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Full name of responsible person

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Position

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Other areas of specialty/work

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Email

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Web page address

www.pccrg.org

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