

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

Evaluation of the effect of polyunsaturated fatty acids on the level of genes and Proteins of MMP1 , MMP9 , PDCD4 in gastric mucosal tissue in patients with gastric adenocarcinoma under chemotherapy

Protocol summary

Summary

This study aimed to Evaluate the effect of oral administration polyunsaturated fatty acids on oxidative stress in patients with gastric cancer will be done, the main goal of this study decrease of drug resistance in this patients. The patients of the Endoscopy Clinic of Tabriz University of Medical Sciences with a presumptive diagnosis of gastric tumor will sample 3 biopsy of the gastric tumor was removed and immediately transferred to liquid nitrogen tank will be . 34 patients in the two group of 17 people with written consent and with full knowledge of the research topic. In two groups, the first group of selective chemotherapy with no chemotherapy group Bamkml supplements and omega-3 fatty acids , Omega 6 and Omega-9 3000 mg daily dose for 3 months will start . After 3 months again from the biopsy samples taken from the patient immediately transferred to the nitrogen tank to be tested will be transferred to the relevant department . Experiment is performed on biopsy specimens.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016121216922N2**

Registration date: **2017-01-24, 1395/11/05**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-01-24, 1395/11/05

Registrant information

Name

Homayun Dolatkahh

Name of organization / entity

Dept. of Clinical Biochemistry, School of Pharmacy and Pharmaceutical Sciences, Isfahan University

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Recruitment status

Recruitment complete

Funding source

Tabriz liver and Gastrointestinal Disease research center

Expected recruitment start date

2015-07-15, 1394/04/24

Expected recruitment end date

2016-07-28, 1395/05/07

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of polyunsaturated fatty acids on the level of genes and Proteins of MMP1 , MMP9 , PDCD4 in gastric mucosal tissue in patients with gastric adenocarcinoma under chemotherapy

Public title

Effect of Omega Fatty Acids on treatment of Gastric Cancer

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: patients with gastric adenocarcinoma who that the chemotherapy will be. Exclusion criteria:

People who are not taking medication due to cardiac obstruction; Pyloric obstruction due to people who are not able to take medicine; Diabetic patients; Patients with renal failure; Three months before entering the study, patients who are taking omega supplements.

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 34

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

tabriz university of medical science

Street address

faculty of medicine ,tabriz university of medical science,golgasht ave,tabriz,I.R.IRAN

City

Tabriz

Postal code**Approval date**

2016-08-08, 1395/05/18

Ethics committee reference number

IR.TBZMED.REC.1395.677

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

Gastric Adenocarcinoma

ICD-10 code

c16.2

ICD-10 code description

Malignant neoplasm of body of stomach

Primary outcomes**1****Description**

drug resistance

Timepoint

before and after

Method of measurement

jen expression and level of protein

Secondary outcomes**1****Description**

oxidative stress

Timepoint

before and after

Method of measurement

jen expression and level of protein

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

The second group oxaliplatin drug with pills Natural Factors Ultimate-Omega Factors 1200 mg of omega-3 fatty acid, omega-6 and Omega-9 to the formula: Fish Oil Blend 400 mg, Flexseed Oil 400 mg, Borage Oil 400 mg, daily the amount of 3600 mg for 3 courses including a three-week period, the treated. After this time the biopsy was done and the tumor treatment will follow.

Category

Treatment - Drugs

2**Description**

In two groups to,The first group of patients was treated with oxaliplatin without prescription of omega fatty acids for three course, and each course includes three weeks .

Category

Treatment - Drugs

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

Emam reza Hospital

Full name of responsible person

mehran khojastefard

Street address

Emam reza Hospital,golgasht Ave,tabriz

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz liver and Gastrointestinal Disease research Center

Full name of responsible person

Prof. Dr. Mohammad-Hosein Somi

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Emam Reza Hospital, Daneshgah Str.

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

Yes

Title of funding source

Tabriz liver and Gastrointestinal Disease research Center

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**

Faculty of Medicin, Tabriz University

Full name of responsible person

Mehran Khojastefard

Position

Msc ,Clinical Biochemistry

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Person responsible for scientific inquiries

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Assistant.Prof

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Msc Clinical Biochemistry

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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