

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Investigation of the efficacy of prophylactic pancreatic duct stenting in the prevention of post-ERCP-pancreatitis in patients with difficult common bile duct cannulation using double guide wire technique

#### Protocol summary

##### Study aim

Investigating the effect of prophylactic pancreatic duct stenting in preventing pancreatitis after ERCP and comparing it with the group that did not undergo stenting.

##### Design

A clinical trial with two parallel groups, one side blind and on 238 patients, the trial phase is not applicable for this study. Randomization based on random blocks

##### Settings and conduct

All patients who are referred to Taleghani Hospital in Tehran for the first time for ERCP and who meet the criteria for difficult biliary cannulation and who have experienced at least one unintentional PD cannulation will be included in this study. The degree of difficulty of biliary cannulation is graded as grade 1 for easy cannulation, grade 2 for cannulation with moderate difficulty, and grade 3 for difficult cannulation. Patients with grade 2 and 3 difficult cannulation are subjected to biliary drainage techniques including DGW, TPS and OGW. Then, they are randomly targeted in the PDS inclusion or non-implementation experiment. A Boston Scientific 5cm-5Fr pigtail stent will be placed in all PD stenting candidates. Finally, patients will be followed for improvement of symptoms and occurrence of side effects during hospitalization.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: patients suspected of acute biliary pancreatitis, biochemical findings and ultrasound findings. Exclusion criteria: cardiopulmonary disease and other systemic diseases that endanger anesthesia

##### Intervention groups

In the first group (intervention), prophylactic bile duct stents will be implanted for patients. In the second group (control), patients will not be placed under the bile duct stent.

##### Main outcome variables

Cannulation success rate; Complications include pancreatitis, perforation, bleeding

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20230314057717N3**

Registration date: **2023-07-05, 1402/04/14**

Registration timing: **prospective**

Last update: **2023-07-05, 1402/04/14**

Update count: **0**

##### Registration date

2023-07-05, 1402/04/14

##### Registrant information

##### Name

Amir Sadeghi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 2243 2540

##### Email address

amirsadaghi@sbmu.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2023-07-23, 1402/05/01

##### Expected recruitment end date

2023-12-22, 1402/10/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty  
**Trial completion date**  
empty

**Scientific title**  
Investigation of the efficacy of prophylactic pancreatic duct stenting in the prevention of post-ERCP-pancreatitis in patients with difficult common bile duct cannulation using double guide wire technique

**Public title**  
Investigating the effect of pancreatic duct stent in the prevention of pancreatitis after ERCP

**Purpose**  
Treatment

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Patients with acute pancreatitis (increased amylase and lipase 3 times more than normal) Patients with gallstones on ultrasound suspected to have CBD stones (symptomatic gallstone disease) Biochemical findings (increased AST, ALP, ALT or bilirubin) Ultrasound findings (diagnosis of stones or enlargement of the CBD) that indicate a CBD stone or blockage of the CBD

**Exclusion criteria:**  
**Age**

From **18 years** old

**Gender**  
Both

**Phase**  
N/A

**Groups that have been masked**  

- Data analyser

**Sample size**  
Target sample size: **238**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
Patients are assigned to two groups using the random block method. The number of blocks will be 4 and in each block three patients will be included in the study order. Random allocation of blocks of patients to two treatment groups will be done through Sealed Envelope online software. The randomized list of blocks is placed in sealed envelopes and will be provided to the endoscopist on a daily basis

**Blinding (investigator's opinion)**  
Single blinded

**Blinding description**  
In order to avoid the bias of the analyst, he does not know which patient is in which group, and the patients' characteristics are provided to him in a coded form.

**Placebo**  
Not used

**Assignment**  
Parallel

**Other design features**

**Secondary Ids**  
empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Shahid Beheshti University of Medical Sciences Faculty of Medicine

##### Street address

Arabi street, Velenjak

##### City

Tehran

##### Province

Tehran

##### Postal code

1985717413

##### Approval date

2022-09-20, 1401/06/29

##### Ethics committee reference number

IR.SBMU.MSP.REC.1401.308

## Health conditions studied

### 1

#### Description of health condition studied

Bile duct disease

#### ICD-10 code

K83.1

#### ICD-10 code description

Obstruction of bile duct

## Primary outcomes

### 1

#### Description

Incidence of pancreatitis after ERCP

#### Timepoint

6 hours after the procedure

#### Method of measurement

Blood Amylase and/or lipase 3 times higher than normal 24 hours after the procedure with abdominal pain

### 2

#### Description

Success rate of bile duct cannulation

#### Timepoint

At the time of cannulation by the endoscopist

#### Method of measurement

Visual diagnosis of the endoscopist by observing the cannulation process on the monitor

### 3

#### Description

Bleeding

#### Timepoint

During or after the procedure

#### Method of measurement

Clinical evidence of bleeding or hemoglobin drop

#### 4

**Description**

Perforation of bile duct

**Timepoint**

During the procedure

**Method of measurement**

Clinical evidence of perforation of the lateral or medial wall of the bile duct

#### 5

**Description**

Cholangitis

**Timepoint**

6 hours after the procedure

**Method of measurement**

When the bile duct becomes infected (abdominal pain and fever over 38 degrees)

### Secondary outcomes

#### 1

**Description**

Body temperature

**Timepoint**

4 hours after the completion of the procedure

**Method of measurement**

Thermometer

#### 2

**Description**

Amylas

**Timepoint**

before the procedure and 3 hours after the procedure

**Method of measurement**

Blood test

#### 3

**Description**

Lipas

**Timepoint**

before the procedure and 3 hours after the procedure

**Method of measurement**

Blood test

### Intervention groups

#### 1

**Description**

Intervention group: Patients who undergo implantation of a 5cm-5Fr pigtail Boston Scientific stent in the pancreatic duct.

**Category**

Treatment - Devices

#### 2

**Description**

Control group: Patients who do not undergo bile duct stenting

**Category**

Treatment - Other

### Recruitment centers

#### 1

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

Taleghani hospital

**Full name of responsible person**

Amir Sadeghi

**Street address**

Arabi street, Velenjak

**City**

Tehran

**Province**

Tehran

**Postal code**

۱۹۸۵۷۱۱۱۵۱

**Phone**

+98 912 501 6596

**Email**

amirsadeghimd@yahoo.com

### Sponsors / Funding sources

#### 1

**Sponsor****Name of organization / entity**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Afshin Zarghi

**Street address**

Arabi street, Velenjak

**City**

Tehran

**Province**

Tehran

**Postal code**

1985717443

**Phone**

+98 21 3277 6063

**Email**

zarghi@sbmu.ac.ir

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

Yes

**Title of funding source**

Shahid Beheshti University of Medical Sciences

**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

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

Gholamreza Noori

#### Position

Gastroenterologist assistant

#### Latest degree

Subspecialist

#### Other areas of specialty/work

Internal Medicine

#### Street address

Arabi street, Velenjak

#### City

Tehran

#### Province

Tehran

#### Postal code

1985717443

#### Phone

+98 21 2243 2540

#### Email

dr\_noori11@yahoo.com

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

Amir Sadeghi

#### Position

Associate professor

#### Latest degree

Subspecialist

#### Other areas of specialty/work

Internal Medicine

#### Street address

Arabi street, Velenjak

#### City

Tehran

#### Province

Tehran

#### Postal code

1985717443

#### Phone

+98 21 2243 2540

#### Email

amirsadeghimd@yahoo.com

## Person responsible for updating data

### Contact

#### Name of organization / entity

Shahid Beheshti University of Medical Sciences

#### Full name of responsible person

Gholamreza Noori

#### Position

Gastroenterologist assistant

#### Latest degree

Subspecialist

#### Other areas of specialty/work

Internal Medicine

#### Street address

Arabi street, Velenjak

#### City

Tehran

#### Province

Tehran

#### Postal code

1985717443

#### Phone

+98 21 2243 2540

#### Email

dr\_noori11@yahoo.com

## 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

Yes - There is a plan to make this available

### Statistical Analysis Plan

Yes - There is a plan to make this available

### Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

### Clinical Study Report

Yes - There is a plan to make this available

### Analytic Code

Yes - There is a plan to make this available

### Data Dictionary

Not applicable

### Title and more details about the data/document

The statistical analysis plan, study design and information on main outcomes will be shared

### When the data will become available and for how long

After the publication of the article

### To whom data/document is available

Researchers, medical students, professors and doctors

### Under which criteria data/document could be used

If used for further research and in compliance with the principle of referencing

### From where data/document is obtainable

Responsible author Amir Sadeghi  
amirsadeghimd@yahoo.com

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

Send the request to the responsible author and outline the reason for the request

### Comments