

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Evaluation of the effect of percutaneous ballooning in the treatment of benign biliary strictures

Protocol summary

Summary

This is an intervention before-after study which investigates the effect of percutaneous biliary balloon dilatation in symptomatic patients suffering from benign biliary strictures. We include Patients in the study if there has been confirmed benign biliary stricture: clinical symptoms were present such as icterus, pruritus, in addition to increase in serum bilirubin and liver enzymes. Patients with the following criteria will exclude from the study: any history of malignancies; absence patient compliance. Our sample volume is calculated 24. After the confirmation of ethical consequences by ethics committee of the Imam Khomeini hospital; patients have been introduced to the details of the procedure and signed the informed consent forms. Patients asked to stop taking anticoagulant agents 5-7 days prior to scheduled procedure. Percutaneous transhepatic cholangiography will be done and external biliary drainage using a pigtail catheter for a week will insert. After one week, a 40-80 mm length angioplasty balloon using high pressure inflation (20 atmospheres) will insert for 15 minutes in a single session. Follow up session will performed one week later using percutaneous transhepatic cholangiography. The dilatation session will repeat if remained stricture would be visible in percutaneous transhepatic cholangiography. Follow-ups in 3 and 6 months later will be done if the duct would be patent in percutaneous transhepatic cholangiography. Serum Bilirubin level, liver enzymes level and ultrasonography findings will investigate in every follow-up session.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201406247435N2**

Registration date: **2014-11-28, 1393/09/07**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-11-28, 1393/09/07

Registrant information

Name

Hazhir Saberi

Name of organization / entity

Diagnostic and interventional radiology department

Country

Iran (Islamic Republic of)

Phone

+98 21 6658 1577

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saberi@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2012-11-01, 1391/08/11

Expected recruitment end date

2014-12-30, 1393/10/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of percutaneous ballooning in the treatment of benign biliary strictures

Public title

Evaluation of the effect of percutaneous ballooning in the treatment of benign biliary strictures

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: benign biliary stricture diagnosed by sonography; cholestatic symptoms exclusion criteria: malignant stricture; patient disability; patient dissatisfaction

Age

From **20 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **24**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tehran University of Medical Sciences Research Faculty

Street address

Tehran University of Medical Sciences

City

Tehran

Postal code

Approval date

2012-10-23, 1391/08/02

Ethics committee reference number

91-02-98-237-63-191

Health conditions studied

1

Description of health condition studied

benign billiary stricture

ICD-10 code

K83.1

ICD-10 code description

Obstruction of bile duct Occlusion Stenosis Stricture of bile duct without calculus

Primary outcomes

1

Description

Releaving of billiary stenosis

Timepoint

Before and after intervention

Method of measurement

Cholangiography

Secondary outcomes

1

Description

Cholestatic symptoms

Timepoint

Before and after and 6 month after intervention

Method of measurement

Interview

2

Description

Total billirubin

Timepoint

Before and after and 6 month after intervention

Method of measurement

Blood test

Intervention groups

1

Description

percutaneous balloon dilation In this procedure ballon helded catheter inserts bile ducts percotaneously. when ballon placed in proper site of stricture, dilatation is done. This procedure is performed under chollangiography guide. There is not control group in this study

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeni Hospital Imaging Center

Full name of responsible person

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University Of Medical Science

Full name of responsible person

Hazhir Saberi

Street address

Imam Khomeni Hospital Imaging Center

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 Science

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

Imam Khomeni Hospital Imaging Center

Full name of responsible person

Hazhir Saberi

Position

assistant professor

Other areas of specialty/work

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Position

Radiologist MD

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Person responsible for updating data

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Full name of responsible person

Somaye Karimi

Position

assistant of Radiology

Other areas of specialty/work

Street address

]Imam Khomeini Hospital

City

Postal code

Phone

Fax

Email

Web page address

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