

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Aug 2026

Assessment of the effects of ketamine-fentanyl combination versus propofol- remifentanil combination for sedation during Endoscopic retrograde cholangiopancreatography

Protocol summary

Summary

Chief Aim: Comparing the effects of ketamine- fentanyl combination and propofol-remifentanil combination for sedation during Endoscopic retrograde cholangiopancreatography. Study Design: Interventional – randomized – double blinded Target Population: patients who will undergo ERCP in St. Alzahra hospital, Isfahan, Iran and consented to participate in this study Key Inclusion criteria: Patient at age between 25 to 70 years, ASA physical status I and II, Key Exclusion criteria: Occurring severe ERCP complications such as perforation and bleeding, ERCP procedural failure Sample Size: 62 (31 per group) Intervention: The patients will be randomly allocated into two groups. Group 1 will receive Ketamine – Fentanyl combination and group 2 will receive Propofol – Remifentanil combination. Date of intervention: 2011.08.22 to 2014.03.20 Primary Outcome: sedation level

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014052317651N1**
Registration date: **2014-06-12, 1393/03/22**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-06-12, 1393/03/22

Registrant information

Name

Parisa Loghmani

Name of organization / entity

Isfahan university of medical sciences, faculty of

medicine

Country

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Recruitment status

Recruitment complete

Funding source

Isfahan University of medical sciences

Expected recruitment start date

2012-08-22, 1391/06/01

Expected recruitment end date

2014-03-20, 1392/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of the effects of ketamine-fentanyl combination versus propofol- remifentanil combination for sedation during Endoscopic retrograde cholangiopancreatography

Public title

effects of ketamine-fentanyl combination and propofol-remifentanil combination for sedation during Endoscopic retrograde cholangiopancreatography

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion Criteria: Patient at age between 25 to 70 years; ASA physical status I and II; Patients without anatomic airway abnormalities; Patients without severe

cardiovascular and respiratory disease; Patients without severe psychological problem; Patients who are not pregnant; Patients who are not smoker or addict; Patients without history of previous ERCP. Exclusion criteria: Occurring severe ERCP complications such as perforation and bleeding; ERCP procedural failure; Changing the sedation plan to the general anesthesia.

Age

From **25 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **62**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Isfahan university of medical sciences, faculty of medicine

Street address

Isfahan university of medical sciences, faculty of medicine Hezarjerib Ave, Azadi square

City

Isfahan

Postal code

81746

Approval date

2011-11-09, 1390/08/18

Ethics committee reference number

390425

Health conditions studied

1

Description of health condition studied

Disorders of gallbladder, biliary tract and pancreas

ICD-10 code

K87

ICD-10 code description

Disorders of gallbladder, biliary tract and pancreas in diseases classified elsewhere

Primary outcomes

1

Description

Sedation level

Timepoint

every 5 min during the first 15 min of the procedure and then every 15 min until the end of procedure

Method of measurement

Ramsay scale

Secondary outcomes

1

Description

Dose repeats

Timepoint

during ERCP

Method of measurement

Questionnaire

2

Description

Recovery time

Timepoint

after procedure

Method of measurement

Aldrete score

3

Description

Systolic blood pressure

Timepoint

before the intervention then every 5 min during the first 15 min of the procedure and then every 15 min until the end of procedure and then at the entrance to the recovery room and after first 15 min

Method of measurement

sphygmomanomete

4

Description

Heart rate

Timepoint

before the intervention then every 5 min during the first 15 min of the procedure and then every 15 min until the end of procedure and then at the entrance to the recovery room and after first 15 min

Method of measurement

Beat/minute

5

Description

O2 saturation

Timepoint

before the intervention then every 5 min during the first 15 min of the procedure and then every 15 min until the end of procedure and then at the entrance to the recovery room and after first 15 min

Method of measurement

Pulse oximetry

6

Description

Respiratory rate

Timepoint

before the intervention then every 5 min during the first 15 min of the procedure and then every 15 min until the end of procedure and then at the entrance to the recovery room and after first 15 min

Method of measurement

per minute

7

Description

Retching

Timepoint

during ERCP

Method of measurement

Questionnaire

8

Description

Apnea occurrence

Timepoint

during ERCP

Method of measurement

Questionnaire

9

Description

Patient's pain intensity

Timepoint

at 60 min post procedure

Method of measurement

Visual analogue scale(VAS)

10

Description

Patient's satisfaction

Timepoint

after procedure

Method of measurement

Visual analogue scale(VAS)

11

Description

Intensity of nausea

Timepoint

at 60 min post procedure

Method of measurement

Visual analogue scale(VAS)

12

Description

Endoscopist's satisfaction

Timepoint

after procedure

Method of measurement

Visual analogue scale(VAS)

Intervention groups

1

Description

Ketamine group will receive a loading dose of Ketamine 0.5 mg/Kg body weight intravenously over 60 seconds and then Fentanyl 1 mcg/Kg body weight intravenously. According to sedation level, in Ramsay sedation score(RSS) 1 and RSS2, the initial sedation will be inadequate and the repeated dose will be necessary to accomplish the procedure and additional incremental dose of Ketamine 0.2 mg/Kg body weight will be given intravenously to patient in Ketmine group.

Category

Treatment - Drugs

2

Description

Propofol group will receive Propofol 1 mg/Kg body weight intravenously over 60 seconds and then Remifentanyl 0.05 mcg/Kg body weight/min intravenously. Intravenous infusion of propofol will be maintained by 50 mcg/Kg body weight/min throughout ERCP. In RSS1 and RSS2 the initial sedation will be inadequate and the repeated dose will be necessary to accomplish the procedure and intravenous infusion of propofol will be increased up to 100 µg/Kg body weight/min to patient in Propofol group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Sayed Morteza Heidari - Anaesthesiologist

Street address

Sofe Ave, Alzahra Hospital

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Isfahan university of medical sciences, faculty of medicine

Full name of responsible person

Dr. Bahram NasrEsfahani/ financial deputy

Street address

Isfahan university of medical sciences, faculty of medicine Hezarjerib Ave, Azadi square

City

Isfahan

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Isfahan university of medical sciences, faculty of medicine

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

Alzahra Hospital

Full name of responsible person

Sayed Morteza Heidari - Anaesthesiologist

Position

Attending/Anaesthesiologist

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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Full name of responsible person

Sayed Morteza Heidari - Anaesthesiologist

Position

Attending/Anaesthesiologist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

Parisa Loghmani

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Medical student

Other areas of specialty/work

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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