

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Effect of clonidine premedication on intraoperative Hemodynamic changes and Blood loss in mandibular fracture surgery .

Protocol summary

Summary

The aim of this study was the use of oral clonidine to reduce blood pressure and reduce bleeding and to stabilize the hemodynamic changes thus reduce bleeding and having a clear field of action in the treatment of mandibular fractures surgery. The patients studied were ASA class I or II of the groupings. Patients with a positive medical history of systemic disease or high blood pressure and low blood pressure, liver and kidney disease, and cardiovascular or cerebrovascular disease who had received any medication during the last two weeks were excluded. 86 patients of both sexes with an age range of 15-35 years were studied. Patients were divided into two groups of 43. Clonidine group .1 mg clonidine and a placebo to the control group received 60 minutes preoperative. Hemodynamic changes in both groups preoperative and intraoperative the ten-minute intervals and the end of operative recording is bleeding. Finally, the two groups are compared. The trial is a randomized, double-blind .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012091610853N1**

Registration date: **2012-10-09, 1391/07/18**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-10-09, 1391/07/18

Registrant information

Name

Omid Ghasemzadeh

Name of organization / entity

Jondishapoor University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1372 7219

Email address

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Recruitment status

Recruitment complete

Funding source

State

Expected recruitment start date

2011-03-01, 1389/12/10

Expected recruitment end date

2012-04-18, 1391/01/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of clonidine premedication on intraoperative Hemodynamic changes and Blood loss in mandibular fracture surgery .

Public title

Effect of clonidine on hemodynamic changes and bleeding

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria : Groupings of men and women in the class I or II ASA; men and women between 15 to 35 years
Exclusion criteria: Patients with a positive medical history of systemic diseases

Age

From **15 years** old to **35 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 86

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

Jondishapoor University of Medical Sciences

Street address

Jondishapoor University of Medical Sciences, Golestan Alley, Ahvaz, Khozestan

City

Ahvaz

Postal code

iran

Approval date

2011-03-01, 1389/12/10

Ethics committee reference number

u-89237

Health conditions studied

1

Description of health condition studied

Fracture of mandible

ICD-10 code

S02.6

ICD-10 code description

Fracture of mandible

Primary outcomes

1

Description

blood loss and hemodynamic changes

Timepoint

preoperative and Intraoperative

Method of measurement

ml and mmHg with manometer

Secondary outcomes

1

Description

The consumption of morphine and fentanyl, and remifentanyl

Timepoint

intraoperative

Method of measurement

Micro g/ kg and mg/ kg

Intervention groups

1

Description

In treatment group 1. Clonidine mg given orally one hour before surgery. Blood pressure, heart rate and mean arterial pressure one hour before surgery and during the specified times for 10 minutes and are recorded and bleeding at the end of the operation is calculated .This trial is a randomized, double-blind

Category

Treatment - Surgery

2

Description

In the control group given a placebo an hour before surgery . Blood pressure, heart rate and mean arterial pressure one hour before surgery and during the specified times for 10 minutes and are recorded and bleeding at the end of the operation is calculated

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Khomeini Hospital

Full name of responsible person

Omid Ghasemzadeh-Resident of maxillofacial surgery

Street address

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for research -Ahvaz Jondishapur

University of Medical Science

Full name of responsible person

dr.mostafa fegghi

Street address

Vice-chancellor for research -Ahvaz Jondishapur
University of Medical Science

City

Ahvaz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice-chancellor for research -Ahvaz Jondishapur
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

Ahvaz University of Medical Sciences

Full name of responsible person

Omid Ghasemzadeh

Position

Resident

Other areas of specialty/work

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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