

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Effect of oral propranolol on coetaneous hemangioma in children under 15 years of Amir Kabir Hospital

Protocol summary

Summary

The crossover clinical trial to evaluate the effect of oral propranolol on back skin hemangioma in children less than 15 years admitted to hospital with Amir Kabir performed. Inclusion criteria: age under 15 years, numerous Hemangiomas, tumor size greater than 5 cm, as between hemangioma. Exclusion criteria: age over 15 years, underlying heart disease, asthma, liver or kidney dysfunction, hypoglycemia, or low blood pressure as a result of drug use. The sample size is 32 students. Two groups of 16 patients aged 5 years and 5 years and above are divided. One group was treated with propranolol in the 2mg/kg for six months and is considered a group. If the pressure of the injury and damage caused to a large extent be excluded and replaced the indications for treatment. After six months, a period of one week to the elimination half-life of propranolol is given and the groups are reversed. Being continuously monitored by measuring the lesion occurs monthly during treatment, patients three days a week and once a month after the start of treatment and the evaluation of the size and color of your blood sugar levels are and after six months of treatment during the last two weeks of therapy, the medication is discontinued and the patient gradually until six months after the treatment in terms of recurrence of cardiovascular risk factors.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015011920715N1**

Registration date: **2015-05-04, 1394/02/14**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-05-04, 1394/02/14

Registrant information

Name

Aziz Eghbali

Name of organization / entity

دانشگاه علوم پزشکی اراک

Country

Iran (Islamic Republic of)

Phone

+98 86 3465 5314

Email address

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Recruitment status

Recruitment complete

Funding source

Arak University of Medical Sciences

Expected recruitment start date

2014-10-02, 1393/07/10

Expected recruitment end date

2015-10-02, 1394/07/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of oral propranolol on coetaneous hemangioma in children under 15 years of Amir Kabir Hospital

Public title

Effect of oral propranolol on benign vascular tumors in children under 15 years

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age under 15 years; numerous

Hemangiomas; tumor size greater than 5 cm;
Hemangioma on the face and nose. Exclusion criteria:
age over 15 years; underlying heart disease; asthma;
liver or kidney dysfunction; hypoglycemia; or low blood
pressure due to drug use; consent to continue the study;
the presence of compression lesion during the period
under consideration.

Age

From **78 years** old to **93 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **32**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Arak university of medical science

Street address

Arak, Hoda Science, University of Medical Sciences

City

Arak

Postal code

Approval date

2014-09-29, 1393/07/07

Ethics committee reference number

93-168-3

Health conditions studied

1

Description of health condition studied

Cutaneous hemangioma

ICD-10 code

D18.0

ICD-10 code description

D18.1

Primary outcomes

1

Description

Size and color of blood sugar levels

Timepoint

3 days, 1 week, 1 month, 2 months, 3 months, 4 months,
5 months, 6 months

Method of measurement

Ultrasound and ruler

Secondary outcomes

1

Description

Recurrent lesions

Timepoint

6 months after cessation of treatment

Method of measurement

Ultrasound and ruler

Intervention groups

1

Description

Group 1: was treated with propranolol 2 mg per kg for six
months

Category

Treatment - Drugs

2

Description

Group 2: only are monitored.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Dr. Shabnam Hajiani Qotb Abadi

Full name of responsible person

Dr. Shabnam Hajiani Qotb Abadi

Street address

Arak, Amirkabir Hospital

City

Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Arak University Of Medical Science

Full name of responsible person

Dr. davood hekmatpoo

Street address

Arak, Alamolhoda street, University of Medical science

City

Arak

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

Yes

Title of funding source

Arak 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**

Arak University of medical science

Full name of responsible person

Dr. shabnam Hajiani Qotb Abadi

Position

Pediatric residents

Other areas of specialty/work**Street address**

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Full name of responsible person

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Position

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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