

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

study of the effects of Atenolol, Enalapril and Hydrochlorothiazid on the Hypertension stage II in patients with hypertension

Protocol summary

Summary

Hypertension is one of the most important and common health problems in societies. Hypertension is often asymptomatic and can be simply treated if HTN is not treated, it can result in serious morbidity and mortality. Varieties of drugs are available for treatment of HTN Including: Diuretics, beta bulkers, blockers of calcium channel, angiotensin-converting enzyme inhibitors, angiotensin receptor antagonists, alpha bulkers and arterial dilators. This research was performed to evaluate the efficacy of some of these drugs on the hypertension. This may help to choose an appropriate medication for the treatment of hypertension stage II. 150 patients with hypertension who were not under antihypertensive treatment and did not Contraindications for use Hydrochlorothiazide, Enalapril and Atenolol were randomly allocated into three groups. The first group received Atenolol 50 mg daily, The second group hydrochlorothiazide 50 mg daily and The third group Enalapril 5 mg two daily. After three weeks blood pressure of patients was measured.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012110511371N1**

Registration date: **2013-01-31, 1391/11/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-01-31, 1391/11/12

Registrant information

Name

Bitah Shahbazzadegan

Name of organization / entity

Ardabil University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 45 1551 2007

Email address

b.shahbaz@arums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ardabil University of Medical Sciences

Expected recruitment start date

2006-03-21, 1385/01/01

Expected recruitment end date

2007-03-21, 1386/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

study of the effects of Atenolol, Enalapril and Hydrochlorothiazid on the Hypertension stage II in patients with hypertension

Public title

comparative of the effects of Atenolol, Enalapril and Hydrochlorothiazid

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria: All patients with hypertension stage II referred to Buali Hospital in Ardabil; without medications of hypertension; without renal disease (Cr> 1.5); without electrolyte imbalances; no contraindications for use atenolol (asthma, heart block, bradycardia, hypotension); no contraindications for use hydrochlorothiazide

(hyperuricemia, initial Hypraldstrvnyism; no contraindications for use enalapril (allergy, renal failure); wishing to participate in the study

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **150**

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

Ardabil University of Medical Sciences

Street address

Ardabil. University street

City

Ardabil

Postal code

Approval date

2006-09-23, 1385/07/01

Ethics committee reference number

0264

Health conditions studied

1

Description of health condition studied

Hypertension

ICD-10 code

I11.9

ICD-10 code description

Hypertensive heart disease without (congestive) heart failure

Primary outcomes

1

Description

hypertension

Timepoint

Before the experiment, three weeks after intervention

Method of measurement

Mm Hg, using a mercury manometer

Secondary outcomes

empty

Intervention groups

1

Description

The first group were given atenolol 50mg once daily (three weeks).

Category

Treatment - Drugs

2

Description

The second group enalapril 5mg every 12 hours (three weeks).

Category

Treatment - Drugs

3

Description

The third group Hydrochlorothiazide 50mg once daily (three weeks).

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Heart Clinic of Bootali Hospital

Full name of responsible person

Behzad Babapour

Street address

Ardabil University of Medical Sciences

City

Ardabil

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ardabil University of Medical Sciences

Full name of responsible person

Behzad Babapour

Street address

Ardabil-University street

City

Ardabil

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

Yes

Title of funding source

Ardabil University of Medical Sciences

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**

Ardabil University of Medical Sciences

Full name of responsible person

Behzad Babapour

Position

Assistant professor of cardiology

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

Ardabil University of Medical Sciences

City

Ardabil

Postal code**Phone**

+98 45 1551 2007

Fax**Email**

b.babapoursaatlou@arums.ac.ir

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Ardabil University of Medical Sciences

Full name of responsible person

Behzad Babapour

Position

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

Ardabil University of Medical Sciences

City

Ardabil

Postal code**Phone**

+98 45 1551 2007

Fax**Email**

b.babapoursaatlou@arums.ac.ir

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Ardabil University of Medical Sciences

Full name of responsible person

Behzad Babapour

Position

Assistant professor of cardiology

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

Ardabil University of Medical Sciences

City

Ardabil

Postal code

56197

Phone

+98 45 1551 2000

Fax**Email**

b.babapoursaatlou@arums.ac.ir

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*