Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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

Bita Shahbazzadegan

Name of organization / entity

Ardabil University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 45 1551 2007

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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 Hypraldstrvnysm; 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 Booali 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
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Assistant professor of cardiology
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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