

Multi-center cluster-randomised clinical trial to evaluate the efficacy of an intervention to improve anti-hypertensive medication adherence among patients with uncontrolled hypertension and high cardiovascular risk

Submission date 24/08/2004	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 11/10/2004	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 02/12/2010	Condition category Circulatory System	<input type="checkbox"/> Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Acronym

COM 99

Study objectives

Added as of 01/12/2008:

The proposed study intervention to improve adherence to antihypertensive medication will improve both adherence to antihypertensive medication and the degree of blood pressure control. The better blood pressure control in the intervention group will result in a reduction of cardiovascular events.

Please note that, as of 01/12/2008, the start and end dates of this trial have been updated from 10/04/2000 and 05/05/2002 to 01/01/2000 and 01/12/2005, respectively.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Institutional Review Board of the Hospital General de Vic (Spain), approved on 02/06/1999.

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Not specified

Study type(s)

Not Specified

Participant information sheet

Health condition(s) or problem(s) studied

Arterial hypertension

Interventions

Usual clinical practice will be continued in patients assigned to the control group. The intervention to improve adherence to antihypertensive medications in the treatment group will

include multi-level components (behavioral, cognitive, and social support). The clinical guidelines published by the World Health Organization (WHO) and the International Society of Hypertension (ISH) will be used to classify patients by their cardiovascular risk. The trial will be actively monitored to perform quality data assurance as well as external auditing.

Outcomes: Adherence to medications will be measured in both the control and intervention group using an electronically monitored pill container (EDEM®), which registers the date and time a pill is removed from the container. Blood pressure will be registered at each visit with a validated semiautomatic sphygmomanometer (OMRON 705-CP). Primary outcomes will include blood pressure, adherence levels, and cardiovascular morbidity and mortality. Expected follow-up time is 5 years.

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

1. Mean SBP and DBP values obtained during office visit (measured at each visit with a semiautomatic sphygmomanometer (OMRON 705-CP). Main analysis will include blood pressure data until visit 3 (6 months).

Secondary outcome measures

1. Medication adherence according to MEMS (medication event monitoring system) device results. Medication adherence data will include information on the first 6 months (visit 3). Apart from recording the date and time each time the container is opened, the information from the electronic device may be downloaded to a computer for further statistical analysis.

2. Time elapsed until the first cardiovascular morbidity or mortality event during follow-up (expected follow-up duration: 5 years).

2.1. Fatal events ascribable to cardiovascular pathology. the following will be included: sudden heart failure; fatal myocardial infarction; death during/post percutaneous transluminal coronary angioplasty (PTCA) or aortocoronary bypass; death due to congestive heart failure; fatal CVA.

2.2. Non-fatal events ascribable to cardiovascular pathology. the following will be included: debutant congestive heart failure requiring hospitalization or chronic congestive heart failure requiring hospitalization; non-fatal acute myocardial infarction, as verified by a ST-segment peak in the ECG and/or typical enzyme pattern; emergency thrombolytic treatment/fibrinolytic treatment and/or emergency PTCA/aortocoronary bypass to prevent extensive myocardial infarction, as verified by a ST-segment peak in the ECG and/or typical enzyme pattern; CVA verified by CAT or hospital recordings; angina diagnosed with positive treadmill test results; routine PTCA/aortocoronary bypass; unstable angina requiring hospitalization; silent myocardial infarction detected during the study and not present in the ECGs prior to the beginning of the study; terminal renal insufficiency, impaired renal function.

Overall study start date

01/01/2000

Completion date

01/12/2005

Eligibility

Key inclusion criteria

900 patients, aged 50 or older, presenting non-controlled systolic and/or diastolic hypertension, elevated cardiovascular risk (ten-year probability of a cardiovascular event $\geq 30\%$).
90 physicians from hospitals and primary care centers will be randomly allocated to the intervention or control group.

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

900

Key exclusion criteria

1. Participation in any investigational clinical trial within the past 3 months.
2. Incapacity or unwillingness to sign the informed consent.

Date of first enrolment

01/01/2000

Date of final enrolment

01/12/2005

Locations**Countries of recruitment**

Spain

United States of America

Study participating centre

Center for Health Services Research - Henry Ford Health System

Detroit

United States of America

MI 48202

Sponsor information**Organisation**

Osona Foundation for Research and Health Education (Fundació d'Osona per a la Recerca i l'Educació Sanitàries [FORES]) (Spain)

Sponsor details

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Sponsor type

Research organisation

Website

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Funder(s)

Funder type

Government

Funder Name

Instituto de Salud Carlos III -Fondo de Investigación Sanitaria (Spanish Ministry of Health) (FIS00/0045-01 and FIS00/0045-02)

Funder Name

Catalan Agency for Health Technology Assessment and Research (AATM 02/24/98)

Funder Name

Novartis (COM99)

Alternative Name(s)

Novartis AG, Novartis International AG

Funding Body Type

Government organisation

Funding Body Subtype

For-profit companies (industry)

Location

Switzerland

Funder Name

Almirall Prodesfarma (COM99)

Funder Name

Aventis (COM99)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date**Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	21/09/2010		Yes	No