

Cluster randomised trial of a computer based decision support system (CDSS) and decision aid for patients with high blood pressure in the community

Submission date 31/08/2005	Recruitment status Stopped	☒ Prospectively registered ☐ Protocol
Registration date 21/09/2005	Overall study status Stopped	☐ Statistical analysis plan ☐ Results
Last Edited 05/07/2011	Condition category Circulatory System	☐ Individual participant data ☐ Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Prof Tom Fahey

Contact details
Tayside Centre for General Practice
The Mackenzie Building
University of Dundee
Kirsty Semple Way
Dundee
United Kingdom
DD2 4BF
t.p.fahey@chs.dundee.ac.uk

Additional identifiers

Protocol serial number
FJH/LETT196/#15542

Study information

Scientific Title

Acronym

The HyDRA trial - Hypertension Decision Reinforcing Aid

Study objectives

High blood pressure (hypertension) is an important public health problem. There is ongoing concern that the benefits demonstrated in randomised trials of antihypertensive drug treatment are not implemented in everyday clinical practice. Community-based studies throughout the world show that blood pressure goals are achieved in only 25-40% of the patients who take antihypertensive drug treatment. A situation that has remained unchanged for the last 30 years. Observational studies have shown that inadequate control of blood pressure is associated with a significant risk of stroke.

This study aims to improve the decision aid tool and develop a web-based CDSS which will facilitate individual care of Tayside/Fife hypertensive patients, enabling health professionals to overcome the pre-specified barriers of poor chronic disease management. These include: treating to therapeutic targets; aiding in the practical complexity of treating to target for different chronic disorders (in this situation blood pressure, cholesterol, cardiovascular risk and for diabetic patients, glycaemic treatment goals); and as an aid to structuring clinical care by facilitating registration, recall and regular review and incorporating prompts for effective clinical care.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Primary study design

Interventional

Study design

Randomised controlled trial

Study type(s)

Prevention

Health condition(s) or problem(s) studied

Hypertension

Interventions

The intervention is a computer based decision support system. It incorporates the dual elements of a health professional decision support system and patient decision aid. The key elements will include: web-based, multifaceted intervention modelled on the successful Tayside regional diabetes network (MEMO/DARTS); a health professional element including prompts/reminders; a facility for registration, recall and review of patients, flexibility so that the functions can be 'tailored' to respond to data entry; feedback (at the individual, practice and regional level).
Control: usual care

As of 02/06/2011 this trial has stopped due to a combination of poor recruitment, funding issues and relocation of the Principal Investigator from Scotland to Ireland in 2006.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Blood pressure control

Key secondary outcome(s)

1. Adherence to medication
2. Process measures concerning the management of hypertension in primary care
3. Decision conflict

Completion date

30/06/2007

Reason abandoned (if study stopped)

Participant recruitment issue/lack of funding

Eligibility**Key inclusion criteria**

Patients, if they are aged between 40 to 79 years under treatment for high blood pressure and suffering from uncontrolled high blood pressure in accordance with the British Hypertension Society standard of $\geq 150/85$ mmHg.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

1. Severe hypertension requiring immediate treatment (as determined by the GP)
2. Hypertension associated with pregnancy
3. Inability to understand written and spoken English
4. Dementia or learning difficulties

Date of first enrolment

01/01/2006

Date of final enrolment

30/06/2007

Locations

Countries of recruitment

United Kingdom

Scotland

Study participating centre

Tayside Centre for General Practice

Dundee

United Kingdom

DD2 4BF

Sponsor information

Organisation

University of Dundee (UK)

ROR

<https://ror.org/03h2bxq36>

Funder(s)

Funder type

Charity

Funder Name

The Stroke Association, UK (Reference number: TSA 2004/04)

Results and Publications

Individual participant data (IPD) sharing plan**IPD sharing plan summary**

Not provided at time of registration

