

Comparison of blood pressure measurements using an automated blood pressure device in community pharmacies and physicians offices

Submission date 25/07/2012	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 09/08/2012	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 04/08/2014	Condition category Circulatory System	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Accurate measurement of blood pressure is the foundation of appropriate diagnosis, treatment and on-going management of hypertension (high blood pressure). Automated blood pressure devices in community settings such as pharmacies provide opportunities for additional blood pressure measurement; however it is important to ensure these measurements are accurate and valid when compared to those taken in the physicians offices using the same devices. The aim of the study is to assess whether blood pressure readings assessed with an automated device differed according to the setting in which they were taken, specifically in community pharmacies compared to physicians offices.

Who can participate?

Community dwelling adults aged 65 years and older registered with five family physicians.

What does the study involve?

Five family physician offices mailed invitations to their patients aged 65 years and older to participate in the trial. Eligible and consenting adults are randomly allocated to one of two blood pressure measurement sequences:

1. Pharmacy, physicians office, pharmacy OR
2. Physicians office/pharmacy/physicians office

Automated blood pressure devices (BpTRU) are used in both settings.

What are the possible benefits and risks of participating?

Participants have their blood pressure assessed at three visits. If it is high, their family physician and pharmacist are notified. There are no side effects as only blood pressure is being monitored.

Where is the study run from?

The lead centre is the Bruyere Research Institute in Ottawa. The trial takes place in the two communities of Collingwood and Creemore, in Ontario, Canada.

When is the study starting and how long is it expected to run for?

The trial began in November 2009 and finished in July 2012. Participants were recruited from April 2010 to June 2010.

Who is funding the study?

Canadian Stroke Network, a National Centre of Excellence and the Bruyere Research Institute

Who is the main contact?

Prof Larry W Chambers

lchambers@bruyere.org

Contact information

Type(s)

Scientific

Contact name

Prof Larry Chambers

Contact details

Bruyère Continuing Care

43 Bruyere Street

Ottawa

Canada

K1N5C8

lchambers@bruyere.org

Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title

Comparison of blood pressure measurements using an automated blood pressure device in community pharmacies and physicians offices: the Collingwood-Creemore randomized controlled trial

Study objectives

Blood pressure measurements in a community pharmacy are comparable to blood pressure measurements in a physician office.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Bruyere Continuing Care Research Ethics Board, November 2009

Study design

Adults aged 65 and over randomly allocated to pharmacy/physicians office/pharmacy or physicians office/pharmacy/physicians office sequences.

Primary study design

Interventional

Study type(s)

Screening

Health condition(s) or problem(s) studied

Hypertension and related diseases

Interventions

Five family physician offices mailed invitations to their patients aged 65 years and older to participate in the trial. Eligible and consenting adults are randomly allocated to one of two blood pressure measurement sequences: pharmacy/physicians office/pharmacy or physicians office/pharmacy/physicians office. Automated blood pressure devices (BpTRU) are used in both settings.

Intervention Type

Device

Phase

Not Applicable

Primary outcome(s)

After trial participants attended the first session to have their blood pressure measured, they were asked to come to the next two visits with less than a week between visits. The mean time interval to complete the three BP measurements for Arm A versus Arm B did not significantly differ (Arm A = 11.1 days versus Arm B = 11.8 days ($p=0.36$)).

Key secondary outcome(s))

No secondary outcome measures

Completion date

30/09/2010

Eligibility**Key inclusion criteria**

Community dwelling adults aged 65 years and older registered with five family physicians

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Senior

Sex

All

Key exclusion criteria

Patients in hospital or living in long-term care facilities.

Date of first enrolment

01/04/2010

Date of final enrolment

30/09/2010

Locations**Countries of recruitment**

Canada

Study participating centre**Bruyère Continuing Care**

Ottawa

Canada

K1N5C8

Sponsor information**Organisation**

Bruyere Research Institute (Canada)

ROR

<https://ror.org/05bznkw77>

Funder(s)**Funder type**

Research organisation

Funder Name

Canadian Stroke Network (Canada)

Results and Publications

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	09/04/2013		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Study website	Study website	11/11/2025	11/11/2025	No	Yes