





## O10: Piloting a nurse-led hypertension screening pathway as part of an HIV annual health review

Heather Renton, CNS Co-Ordinator Sussex HIV BP@home pilot project



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#### Conflict of Interest

Gilead sponsored 3 hour training session July 2023

Speakers are required by the Federation of the Royal Colleges of Physicians to disclose conflicts of interest at the beginning of their presentation, with sufficient time for the information to be read by the audience. They should disclose financial relationships with manufacturers of any commercial product and/or providers of commercial services used on or produced for patients relating to the 36 months prior to the event. These include speaker fees, research grants, fees for other educational activities such as training of health professionals and consultation fees. Where a speaker owns shares or stocks directly in a company producing products or services for healthcare this should also be declared. Finally, other conflicts of interest including expert functions in health care or healthcare guidance processes should be declared (eg if the professional is a member of a health board). The Federation considers it good practice to also make speakers' disclosures available in digital format(s) relating to the educational event.







Blood Pressure at Home (BP@Home)



## Piloting a nurse-led hypertension screening pathway as part of an HIV annual health review

Heather Renton, Dr Eileen Nixon, Dr Sonia Raffe

Sussex HIV Nursing team
Brighton: Zoe Adler
Eastbourne/Hastings: Zoe Cuthbertson
Chichester: Barbara Hayman
Crawley: Farai Mukazi
Worthing: Becky Murdock

Integrated Care Board (ICB): Dr Richard Blakey & Dr Suneeta Kotchhar



### Background

- ❖ Cardiovascular Disease (CVD) affects round 7 million people living in the UK; accounting for up to a ¼ of premature deaths (NHS 2024)
- ❖ More than 30% of hypertension cases in the UK remain undiagnosed with prevalence rising across all age groups (NHS 2021)
- ❖ Increased Cardiovascular Disease (CVD) risk in people with HIV (Shah et al 2018, Feinstein 2021)

NHS (2021) Cardiovascular disease prevention and diagnosis: supplementary guidance. Available from: B0951-v-network-contract-des-20-21-cvd-supplementary-guidance.pdf (england.nhs.uk) NHS (2024) Cardiovascular Disease Available from: NHS England » Cardiovascular disease (CVD) Shah et al (2018) Global Burden of Atherosclerotic Cardiovascular Disease in People Living With HIV: Systematic Review and Meta-Analysis. Circulation. Sep 11;138(11):1100-1112. doi: 10.1161/CIRCULATIONAHA.117.033369.

Feinstein (2021) *HIV and Cardiovascular Disease: From Insights to Interventions*. Top Antivir Med. Oct-Nov;29(4):407-411. PMID: 34856094; PMCID: PMC8670825.

#### NHS **REDUCING HEALTHCARE INEQUALITIES** The Core20PLUS5 approach is designed to support Integrated Care Systems to CORE20 O O PLUS The most deprived 20% of ICS-chosen population groups drive targeted action in healthcare inequalities improvement the national population as experiencing poorer-than-average identified by the Index of health access, experience and/or Multiple Deprivation outcomes, who may not be captured within the Core20 alone and would **Target population** benefit from a tailored healthcare approach e.g. inclusion health groups CORE20 PLUS 5 **Key clinical areas of health inequalities** ............... MOKING SSATION vely impacts **HYPERTENSION SEVERE MENTAL** CHRONIC RESPIRATORY **EARLY CANCER** key clinical CASE-FINDING **ILLNESS (SMI)** DISEASE **DIAGNOSIS** ensuring continuity and optimal ensure annual Physical a clear focus on Chronic 75% of cases ...... of care for women management and lipid from Black, Asian Health Checks for people Obstructive Pulmonary diagnosed at stage optimal management with SMI to at least. and minority ethnic Disease (COPD), driving up or 2 by 2028 communities and nationally set targets uptake of Covid. Flu and from the most Pneumonia vaccines to deprived groups reduce infective exacerbations and emergency

# Aim of pilot project

This pilot project aims to establish a nurse-led hypertension screening pathway for PLWH aged over 40-years across six HIV clinics in the South of England.

### Method



Develop project steering group



Appointment of designated CNS post for the pilot



Staff training package developed and adapted for each clinic



Mapping annual health check pathway in all 6 clinics



Developing a hypertension pathway in line with NICE guidelines



SOP, BP monitors and template letters for primary care



Patient consultation



Incremental start dates



Communications strategy

#### Pan Sussex Steering Group

#### Band 7 Co-oordinator

West Sussex team

Brighton & Hove team

East Sussex team





Initial training package—recorded 3 hour presentations/discussion

## Staff training



Adapted training for individual clinics – recorded 1 hour condensed training/discussion

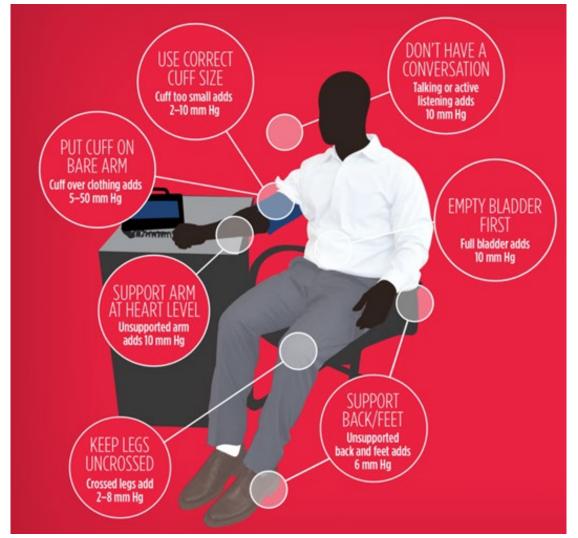


On-site training with staff groups plus 1-1 Clinic visits including meetings to establish clinic set ups and activity

#### Risk factors Modifiable vs Non-modifiable<sup>1</sup>



1.- NICE (2023) What are the risks factors. Available at: https://cks.nice.org.uk/topics/cvd-risk-assessment-management/background-information/risk-factors-for-cvd/ (Access: 17 July 2023).



https://alaskahealthfair.org/wpcontent/uploads/2019/08/Measuring\_Blood\_Pressure\_In-Office.pdf

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# Hypertension pathway and BP@home (Blood Pressure at Home)

Criteria:

Over 40 years old

Not on anti hyperten sives

<130/80 Cat 1 130/80 to 139/89 Cat 2 140/90-179/119 Cat 3 >180/120

No action required

Lifestyle advice only

Lifestyle advice + BP@home

Lifestyle advice, BP@home + Same day medical review as required





#### **BP@home**

Two BP readings at home twice a day for 7 days - average

Validated upper arm
cuff BP monitor
borrowed from clinic or
bought – under 5 years
old, serviced every 2
years

Paper diary or excel diary to be photographed and emailed or returned to clinic in person/post

BP@Home_Diary_FIN	- Editing
Name: Date of Birth: Address:	Sussex Health&Care
Home blood pressure monitoring	Please let your GP practice know if

Every morning and again every aftermoon, for 7 days, we'd like you to take two blood pressure readings, one mixule apart Please do this within the next mornt. It is important you are relaxed and have been resting when you take your blood pressure. Stromfortably with your arm by you rade and your feet on the floor.

Place the culf above your elbow and tighten it over your arm, make sure you can fit wo fireger under the culf When you are ready to check your blood pressure - relax.

Press ON and then the START button. You will leed pressure on SYS 135

You will see three numbers which you need to write in the table below. The first number

Day	Time	1st blood pressure (SYS) / (DIA)	1st pulse	2nd blood pressure (SYS) / (DIA)	2nd puls
Practice day 1	Morning	1		1	
	Evening	1		1	
2	Morning	1		1	
	Evening	1		1	
3	Morning	1		1	
	Evening	1		1	
4	Morning	1		1	
	Evening	1		1	
5	Morning	1		1	
	Evening	1		1	
6	Morning	1		1	
	Evening	1		1	
7	Morning	1		1	
	Evening	1		1	
		e work out your average lery can do this if you do			them in the
for days 2-7 (m	iss out the p	add up all the systolic (SY ractice day) and divide thi counted. Do the same for	s by the total	Your average blood pressure	Average

Or online: Please use the specially designed MS Excel diary file to record your blood pressure readings which will automatically calculate your average blood pressure reading. <u>Click here</u> to download the Excel file. Additional information: The British Heart Foundation has information and videos to help you manage your blood pressure and details of recommended blood pressure machines to buy:

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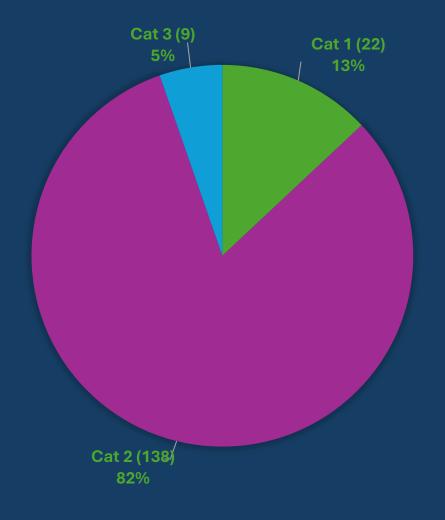
Incremental start dates



Communications strategy

## Commenced on pathway in first 6 months (20/11/2023- 31/05/2024)

Total commenced on pathway across all 6 clinics: **169** 



Cat 1 BP 130/80-139/89

Cat 2 BP 140/90-179/119

Cat 3 BP >180/120

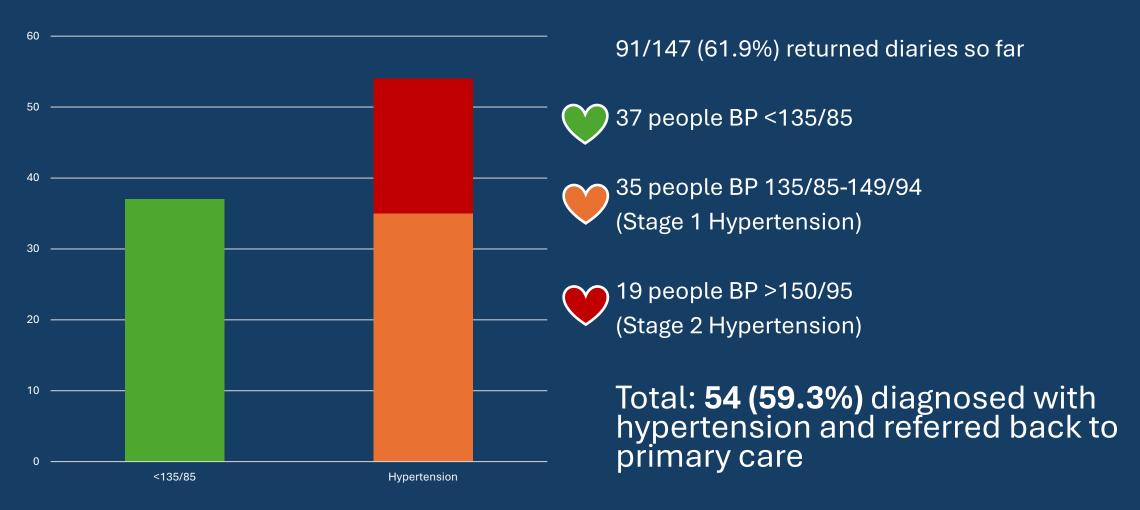


Number of people offered BP@home monitoring: **147** Approx number of monitors

lent out: **139** 

Monitors returned: Unknown

## Hypertension diagnosed in first 6 months of pilot project (20/11/2023-30/05/2024)





## Barriers to implementation

#### **Staff Barriers**

- Staffing backfill
- Additional work
- Time

Initial training needs
Familiarisation with SOP/Pathway
Entering data onto shared databases
Relative consistency across network
Follow up results/outcome/chase unreturned monitors

Resistance to change

#### **Patient Barriers**

- \* Returning monitors
- Additional visits / time in clinic
- GP access unable to get appointments
- Physical, emotional, social and economic factors

e.g. prescription costs/travel costs to clinic, other health priorities such as mental health, time to do monitoring (work/family)

### Conclusions



We are still collecting data and further work is required to identify staff resources needed to sustain this project in the longer term



The project has been already been deemed successful by providing lifestyle advice to 169 people identified as at risk. To date, 91 people have returned their diaries with a diagnoisis of hypertension made in 54/91 (59.3%)



This CVD pilot project demonstrates that HIV Nurses are well placed to drive and deliver relevant diagnostic pathways that respond to the changing needs of PLWH

## Acknowledgements

Brighton & Hove Nursing and Medical team, University Hospitals Sussex

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