

Getting Serious About CVD Prevention 2018 Reducing Variation & Optimising Care

Associate Professor Jamie Waterall National Lead for CVD Prevention & Associate Deputy Chief Nurse PHE

8 February 2018

Premature death rates from cardiovascular disease in the **most deprived** 10% of the population were almost

twice as high

as the least deprived 10% of the population in 2013-15

1 in 4
premature deaths caused
by cardiovascular disease

cardiovascular disease costs the NHS

£8.96 billion

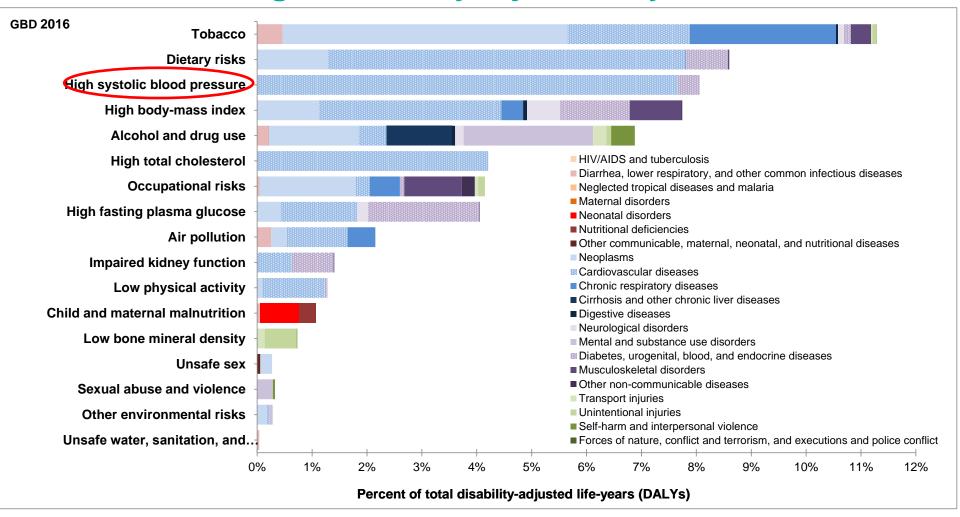
7 million
people in the UK affected
by cardiovascular disease

26% of all deaths caused by cardiovascular disease

What is the single largest modifiable risk factor for CVD in England?



Burden of disease attributable to leading risk factors for both sexes, GBD 2016, expressed as a percentage of England disability-adjusted life-years



Every 10 mmHg red systolic blood significantly redu major cardiova events, includin risk reducti CHD, 27% hea

> For ever decrease in to people can r relative risk for mortality by 24.5 by 29.5% for a CVD event¹²

Over 20% of all factor for CVD - is linked to people with hypertension are assessed for their alcohol use by their GPs13,



Every 10 mmHg reduction in systolic blood pressure significantly reduces the risk of major cardiovascular disease events, including average relative risk reductions of 20% for CHD, 27% for stroke, and 28% for heart failure. cial and envil

Non-modifiable risk factors include age, gender and ethnicity

Quitting smoking is linked to a 36% reduction in risk of all-cause mortality among people

> with coronary heart disease¹⁷

Twitter: @JamieWaterall

deaths r 1.000 terolaemia

to 85 years)

optimally,

ared with

tment16

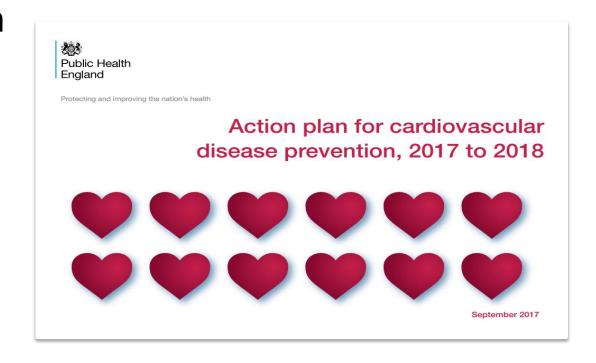
Meeting recommended physical activity of CVD by 20-35%18

levels reduces risk



PHE's commitment to 'Getting Serious about CVD Prevention'

- Launched 29 Sept 2017 (World Heart Day)
- Highlights from the past year
- Priorities for 2017/2018
- Links to useful resources





Highlights from the past year

- Continued to develop our ONE YOU platform and campaign materials, with over 2 million people having completed the How Are You quiz
- Progressed our sugar reduction & wider reformulation programme
- Launched a new Food Smart App
- Jan 2017, we published the new NHS Health Check health equity audit guidance
- Extended our campaign for a truly
 Smoke Free NHS
- Published a summary of an evidence synthesis on the NHS Health Check programme

- Our NCVIN has published a variety of intelligence packs and new data products and resources
- Published The Public Health Burden of Alcohol & the Cost Effectiveness of Alcohol Control Polices
- Partnered with NHS England and Diabetes UK to implement the National Diabetes Prevention Programme (140,000 referrals)
- Led the NHS diabetic eye screening programme, with over 2.5 million people taking up the offer of screening in 2016/2017
- Worked with partners to develop system wide action plan for AF



Priorities for the current year

- Scope the feasibility of building a CVD return on investment tool
- Commission an evidence review to compare international CVD prevention programmes
- Publish updated CVD Profiles, Local Alcohol Profiles & Local Tobacco Profiles
- Review the mechanistic and epidemiological evidence linking air pollutants with effects on the cardiovascular system
- As part of our sugar reduction programme, focus on the reduction of salt consumption across the population

- Relaunch our Act FAST campaign to increases awareness of the signs of stroke and promote urgent access to medical assessment and treatment
- Engage over 1 million adults on their heart health by promoting access to Heart Age Test
- Continue to provide oversight and implementation support for the delivery of the NHS Health Check programme for over 15 million adults in England
- In partnership with NHS England, focus on scaling CVD preventative interventions



Heart Age Test



See how your heart age changes if you:

CHECK YOUR YOU

CHECKING SMOKING DRINKING EATING

ONE YOU

New Heart Age Test campaign linked to ONE YOU being planned for later in the year (?May)

The Heart Age Test:

- · Tells you your heart age compared to your real age
- Explains why it's important to know your blood pressure and cholesterol numbers
- · Gives advice on how to reduce your heart age

Full terms and conditions can be read here



This tool is a collaboration between NHS Choices, Public Health England, UCL and the British Heart Foundation, More information about partners

Full credits can be read here

heart attack or stroke.

Compared to a person of the same age, gender and ethnicity without raised risk

On average, someone like you can expect to live to the age of 85 without having a

See how your heart age changes if you:





Lower cholesterol



Reduce blood pressure





Latest NHS Health Check Statistics

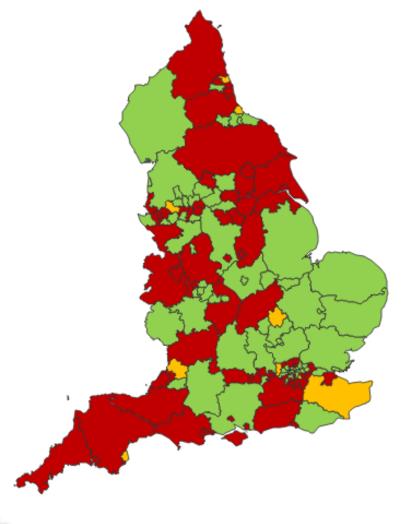
- We have completed 4.5 years of the 5 year cycle (Q1 2013-14 to Q2 2017-18)
- Nationally, 15,503,796 are eligible for an NHS Health Check between 2013 and 2018
- Cumulatively, since Q1 2013-14, a total of 12,796,252 persons (82.5%) have been offered a NHS Health Check and 6,192,271 (39.9%) have had a NHS Health Check. This means that in the 4.5 years between April 2013 and September 2017, 48.4% of people offered a NHS Health Check have had one.
- If trend carries on until end of March: 1.4m (9%) not offered a check by end of 2017-18
- If trend carries on until end of March: over 14m (91%) offers will have been made, providers will have completed 7m NHS Health Checks by the end of 2017-18.



Proportion of eligible people who have had an NHS Health Check

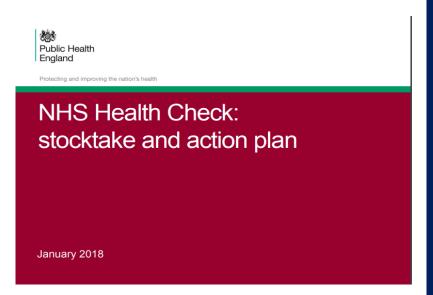
2013-2018, cumulative figures, 18 quarters

http://fingertips.phe.org.uk/profile/nhs-health-check-detailed





A cornerstone of CVD risk reduction in England



recommendation to include dementia risk reduction messaging approved by the Public Health and Primary Care Minister



NHS Five Year Forward View Delivery Plan

Public Health England will work with STPs and NHS England, including the RightCare programme, to support the implementation of identified preventative interventions at scale. Effective progress on this will also reduce the risk factors associated with dementia.

High Risk Conditions for CVD – Rule of Halves

High Blood Pressure

Every 10mmHg reduction lowers risk of CVD event by 20%

Detected	6 in 10
Controlled	6 in10
to 140/90	

Atrial Fibrillation

Anticoagulation lowers risk of stroke by 2/3

Known AF and on anticoagulant at time of stroke

1 in 2

High Cholesterol

Every 1 mmol/l reduction lowers risk of CVD event by 25% each year

10 year CVD risk above 20% and on statins

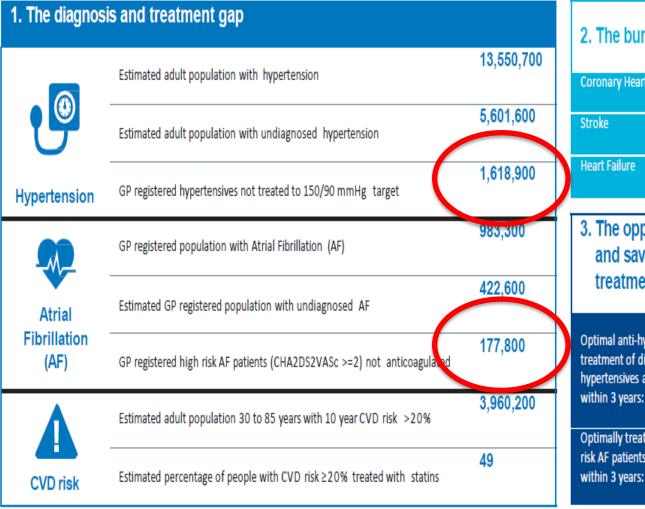
1 in 3

The Size of the Prize in Cardiovascular Disease (CVD) Prevention





England

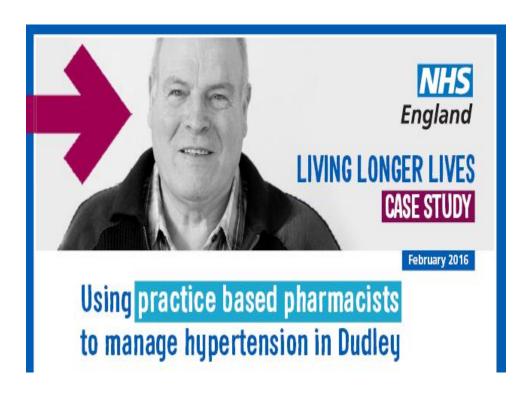


2. The burden: first ever CVDevents		
Coronary Heart disease	128,750	
Stroke	66,450	
Heart Failure	48,350	
	potential events averted 3 years by optimising	

9,710 heart attacks	Up to £72.5 million saved
14,500 strokes	Up to £201.7 million saved
14,220 strokes	Up to £241.6 million saved
	heart



Dudley Practice Pharmacists managing high blood pressure



CCG audit identified

- 28,000 people with undiagnosed Hypertension
- 11,000 people with hypertension not treated to 150/90

Practice based pharmacists

- Increased prevalence by 63%
- Increased proportion treated to 150/90 from 73% to 85%



Bradford's CVD systematic improvement at scale and pace



Dr Youssef Beaini

CVD Lead Bradford and Airedale/Wharfedale/Craven CCGs; GPSI Cardiology; CVD Lead for Yorkshire and Humber Clinical Network; GP at The Ridge Medical Practice, Bradford; Tutor PwSI Diploma Course, University of Bradford; Board Member, Primary Care Cardiovascular Society.

Maciek Gwozdziewicz

Principal Associate for Transformation, Bradford Districts CCG

Dr Chris Harris

Bradford's Healthy Hearts: live longer, better

The Bradford's Healthy Hearts programme was launched in February 2015 and has run for nearly three years. In the first 15 months of operation, the campaign has significantly improved the cardiovascular health of its residents. To date, there have been treatment changes for nearly 22,000 patients over two and a half years. Residents of the Bradford Districts clinical commissioning group (CCG) are now more aware of what is needed for a healthy heart. The CCG estimates it has made net savings of £1.2m in the first 15 months of the initiative. The programme has won the *BMJ* award for clinical leadership in 2016 and two GP awards in 2015.

radford Districts CCG includes 41 GP practices caring for a population of approximately 350,000 people. The area has a higher-than-average rate of cardiovascular disease (CVD): 14% of people have hypertension and in 21,000 people total cholesterol

1. STATINS

The first part of the programme focused on optimising statin therapy. This was based on the recognition that the scale of the problem was far beyond the capacity of primary care to tackle using traditional systems and methods. For example, far in excess of 100,000 extra face-to-face appointments would have



