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

Suffolk and North East Essex



1. The diagnosis and treatment gap, 2015/16				
	Estimated adult population with hypertension	256,100		
	Estimated adult population with undiagnosed hypertension	104,000		
Hypertension	GP registered hypertensives not treated to 150/90 mmHg target	30,000		
Atrial Fibrillation (AF)	GP registered population with Atrial Fibrillation (AF)	20,800		
	Estimated GP registered population with undiagnosed AF	8,800		
	GP registered high risk AF patients (CHA2DS2VASc >=2) not anticoagulated	3,900		
	Estimated adult population 30 to 85 years with 10 year CVD risk >20%	71,300		
CVD risk	Estimated percentage of people with CVD risk \geq 20% treated with statins	49%		

2. The burden: first ever CVD events, 2015/16

Coronary Heart Disease	2,500
Stroke	1,250
Heart Failure	1,050

3. The opportunity: potential events averted and savings over 3 years by optimising treatment in AF and hypertension, 2015/16

Optimal anti-hypertensive treatment of diagnosed	180 heart attacks	Up to £1.30 million saved ²
hypertensives averts within 3 years:	270 strokes	Up to £3.80 million saved ¹
Optimally treating high risk AF patients averts within 3 years:	310 strokes	Up to £5.10 million saved ¹



- Reducing blood pressure in all adults with diagnosed and undiagnosed hypertension by 5 mmHg: reduces risk of CVD events by 10%
- Statin therapy to reduce cholesterol by 1 mmol in people with a 10 year risk of CVD risk greater than 10%: **reduces risk of CVD events by 20-24%**
- Anti-coagulation of high risk AF patients: averts one stroke in every 25 treated



High risk conditions like high blood pressure, atrial fibrillation and high cholesterol are major causes of heart attack and stroke (CVD events). In the high risk conditions preventive treatment is very effective, but late diagnosis and under-treatment is common.

Improving outcomes in CVD: case study

In Bradford Districts Clinical Commissioning Group: Over 24 months, more than 21,000 people had an intervention in lipid management, anti-coagulation or antihypertensive treatment to improve their health. Resulting in 137 fewer heart attacks and 74 fewer strokes compared to baseline.

Footnotes:

Potential events calculated with NNT (theNNT.com). For blood pressure, anti-hypertensive medicines for five years to prevent death, heart attacks, and strokes: 1 in 100 for heart attack, 1 in 67 for stroke. For AF, warfarin over 1.5 years : 1 in 25 for stroke. Numbers may be lower, as some patients may be on prior treatment Hypertenses. Hypertension and AF populations and treatment estimates: QOF 2015/16. CVD high risk estimate numbers: http://www.bmj.com/content/344/bmj.e4181. CVD high risk statin treatment: http://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1002169

¹ Royal College of Physicians (2016). Sentinel Stroke National Audit Programme. Cost and Cost-effectiveness analysis. Technical report ² Kerr, M (2012). Chronic Kidney disease in England: The human and financial cost

The graphic overleaf shows the size of the prize for CVD prevention in Suffolk and North East Essex.

The estimates of impact are indicative but they show the scale of the opportunity to prevent heart attacks and strokes by improving the detection and management of high risk conditions like atrial fibrillation, high blood pressure and high cholesterol. Achieving this at scale would deliver substantial savings in health and social care spend.

The NHS RightCare programme is now rolling out the CVD Prevention Pathway with a series of high impact interventions that will support your CCGs to deliver this improvement. And increasing uptake of the NHS Health Check offers a systematic approach to detecting people with undiagnosed high risk conditions.

Cardiovascular Disease Prevention: Risk Detection and Management in Primary Care

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