

National Cardiovascular Health Intelligence Network:

CVD data resources: focus on atrial fibrillation (AF) and hypertension

February 2018



What is the NCVIN?



Sentinel Stroke National Audit Programme (SSNAP)



DIABETES UK





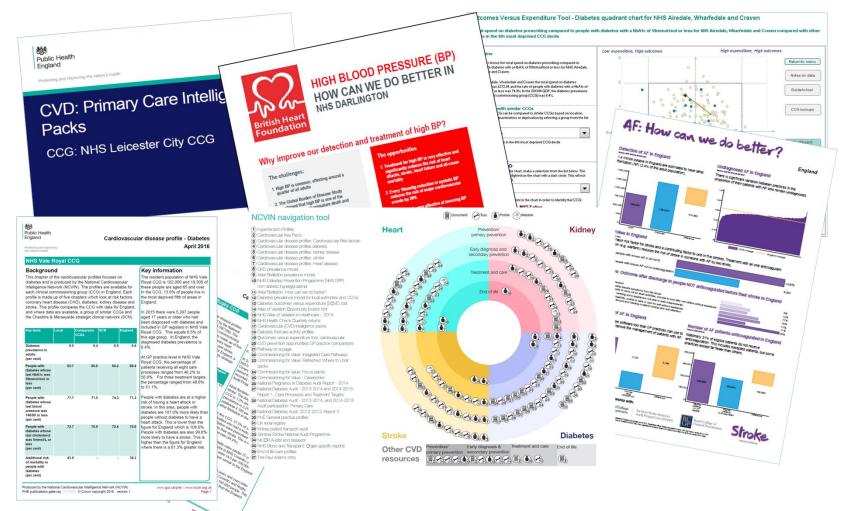


Healthcare Quality Improvement Partnership





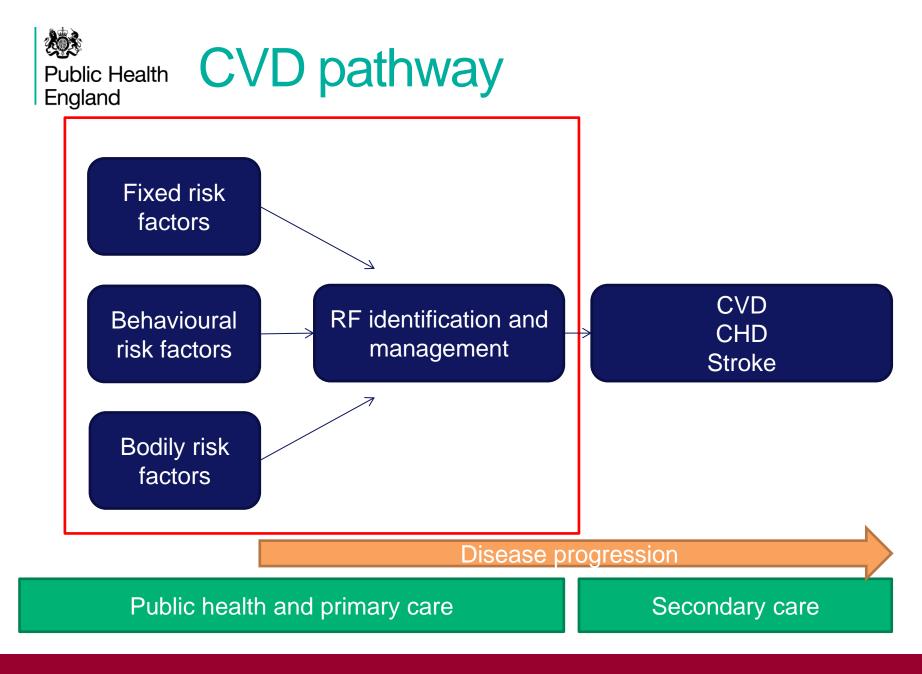
Public Health Tools and resources England





What resources can help to answer these questions?

- How many people have hypertension and AF?
- How well are they managed?
- What is the impact of these conditions?



How many people have **Public Health** hypertension and AF?

Number of people diagnosed with AF and Hypertension East Mids

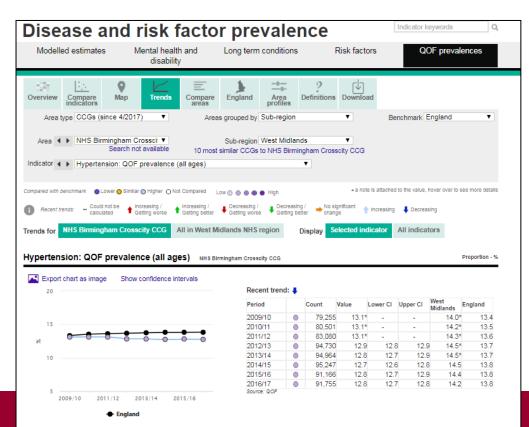
Deviator		2016/17	Change						
Register	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	prev (%)	number
Hypertension	631,774	644,363	652,658	662,372	669,727	681,216	693,869	14.6	62,095
Atrial Fibrillation	66,132	69,800	72,388	75,926	79,405	84,245	92,191	1.9	26,059

Source: NHS Digital Quality and Outcomes framework

England

PHE Disease and Risk Factor Prevalence:

https://fingertips.phe.org.uk/profile/prevalence





Is everyone with hypertension and AF diagnosed?



300 people diagnosed and registered on GP list (OBSERVED)



500 people estimated to have the condition (EXPECTED)

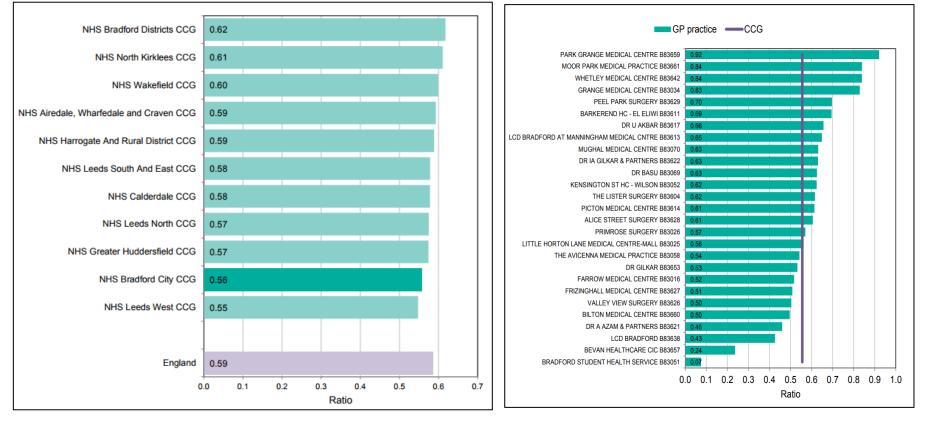
Observed to expected ratio = 3/5 = 0.6 = 60%

NCVIN have developed several prevalence models with other partners

 $\underline{https://www.gov.uk/guidance/cardiovascular-disease-data-and-analysis-a-guide-for-health-professionals \# estimates-of-cvd-prevalence/cardiovascular-disease-data-and-analysis-a-guide-for-health-professionals \# estimates-data-and-analysis-a-guide-for-health-professionals \# est$

How many people have a condition Public Health but are not yet diagnosed

Hypertension observed (diagnosed) to expected ratios at CCG and practice level



CVD primary care intelligence packs

https://www.gov.uk/government/collections/cardiovascular-disease-primary-care-intelligence-packs

www.ncvin.org.uk 8

England

Estimates of CVD prevalence

The CVD estimates can help healthcare professionals understand the prevalence of cardiovascular conditions among certain populations (for example, by sex or age) in their area. Some of the datasets also show the variation in the condition across the local area and between CCGs.

Use the data to estimate how many people in your local area have a particular CVD diagnosis and how many people may be undiagnosed. This can help with planning services and improving outcomes for patients.

The data used in these estimates are from various sources. The estimates use data from local authorities, CCGs and GP practices.

Atrial fibrillation prevalence estimates for local populations

Chronic kidney disease estimates for local and regional populations

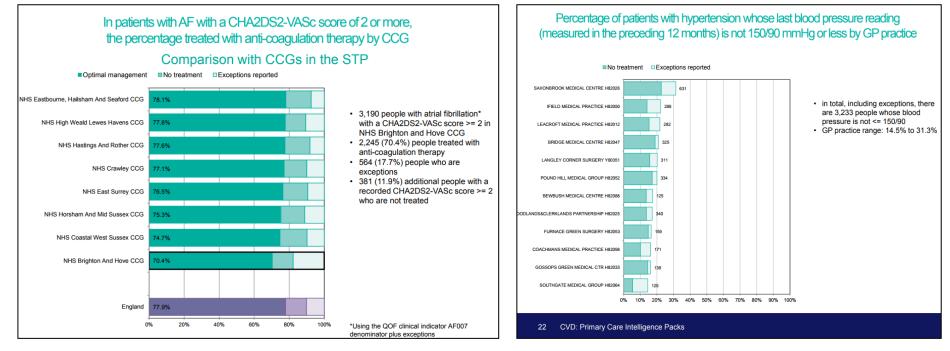
Diabetes prevalence estimates for local populations

Hypertension prevalence estimates for local populations

Non-diabetic hyperglycaemia prevalence in England

How well are AF and hypertension England managed? Management in primary care

CVD primary care intelligence packs



CVD primary care intelligence packs

https://www.gov.uk/government/collections/cardiovascular-disease-primary-care-intelligence-packs

How well are AF and hypertension England managed? Management in primary care

National General Practice Profiles						
Introduction	CTADT	Domain: CVD				
These profiles are designed to support GPs, clinical commissioning groups (CCGs) and local authorities to ensure that they are providing and commissioning effective and appropriate healthcare services for their local population.	START Go to the data	Overview Compare indicators				
In addition to viewing individual practice profiles, you can view summary profiles for CCGs. Each practice can be compared with the CCG and England, and also with the practice deprivation decile.	Recent updates	Area 4 🕨 K8305 Dr Khal				
Using a variety of graphical displays such as spine charts and population pyramids, the tool presents a range of practice-level indicators drawn from the latest available data, including.	QOF updated to 2015/16 Populations updated to April 2016 (age bands up to 95+)	Compared with benchmark				
Local demography Quality and Outcomes Framework domains Cancer Services Child health Antibiotic prescribing Patient satisfaction	GP survey data updated to 2015/16 New Cancer indicators added Life expectancy updated to 2010- 14 April 2016	Export table as imag				
The profiles do not provide an exhaustive list of primary care indicators, but they do allow a consistent approach to comparing and benchmarking across England. For more information consult the <u>User guide</u> and <u>FAQs</u> .	 New antimicrobial resistance (AMR) domain added Number of nursing home places updated 					
Profiles are generated for all practices in QOF 2015/16 with a list size of at least 800 patients. For details see the <u>list of included practices</u> .	December 2015 • New Cancer domain • IMD 2015 practice scores • QOF updated to 2014/15 • Populations updated to April 2015 (age bands up to \$5+) • GP survey data updated to 2014/15 January 2015					
	 NHS comparators up to 12/13 Updates to the Child health domain 					

PHE General practice profiles: https://fingertips.phe.org.uk/profile/general-practice

lationa	I General F	Pra	C	tic	:0	Ρ	ro	fi	e	s	Indicator keywords C
	Heart failure and atria					1					
			lau	011 -							
erview Compare indicators	Map Trends Compary	e An prof	ea	En) gland	Pop	ulation		Box	Def	? Download
Area type GP	▼ An	eas group	ed by	CCG	Gs (sin	ce 4/20	017)	٠		E	Benchmark England
Area 🔺 🕨 K83059 -	Dr Khalid & Part V CCGs	(since 4/	2017)	Cort	by			•			
Dr Khalid 8	Partners, Woodsend Medical Centr	e, School	Place	, Gain	sborou	igh Roa	ad, Co	rby, No	ortham	ptonsh	ire, NN18 0QP
ared with benchmark	ver Similar Higher Not compared								 a note l 	is attach	ed to the value, hover over to see more detail
Export table as image											
						did & Partners	nar & Partner S	nira	K83622 - Great Oakley Medical	de Healthcare	
	Indicator	Period	4	England	NHS Corby CCG	K83059 - Dr Khalid & Partners	K83614 - Dr Kumar & Partner	K83607 - Dr Sumira	83622 - Great (K83002 - Lakeside Heatthcare	
	Heart Failure: QOF prevalence (all ages)	2016/17	٩	0.8	1.0	1.1	1.5	0.8	0.8	1.0	
	Heart failure w LVD: QOF prevalence (all ages)	2016/17	4	0.3	0.3	0.4	0.2	0.5	0.2	0.4	
	Exception rate for heart failure indicators	2016/17	4	9.1	7.8	5.3	8.2	3.4	8.6	8.4	
	Atrial fibrillation: QOF prevalence	2016/17	•	1.8	1.6	1.3	2.0	2.8	1.0	1.7	
	Exception rate for atrial fibrillation indicators (2015/16 indicators)	2016/17	41	6.4	4.9	4.7	1.8	0.0	2.7	6.1	
	Estimated prevalence of atrial	2015/16	41	2.4	2.0	1.8	2.4	2.9	1.4	2.1	
	fibrillation Estimated percentage of detected Atrial Fibrillation	2013/14	41	65.2	65.3	62.9	73.9	71.2	67.7	64.0	
	HF002: Diagnosis conf. by ECG/specialist assessm. (den. incl. exc.)	2016/17		91.1	95.5	97.8	85.3	90.9	95.1	96.9	
	HF003: Heart failure w LVD: treated with ACE-I or ARB (den. incl. exc.)	2016/17	4۵	83.9	87.5	88.1	100	100	84.0	88.5	
	HF004: Heart failure w LVD: treatment w ACE inh. or ARB, and beta-blocker (den.incl.exc.)	2016/17	4Þ	78.8	80.0	81.1	63.6	88.9	66.7	82.3	
	AF002: stroke risk assessed with										



Public Health England Cardiovascular disease profile - Stro								
Protecting and improving the nation's health	7				June 20			
NHS Heywoo	d, Mic	dleton a	nd Ro	chdale	e CCG			
Background					Key information			
This chapter of the cardiovascular disease profiles focuses on stroke and is produced by the National Cardiovascular Intelligence Network (NCVIN). The profiles are available for each clinical commissioning group (CCG) in England. Each profile is made up of four chapters which look at coronary heart disease (CHD), diabetes, kidney disease and stroke. This profile compares the CCG with data for England, a group of similar CCGs and the Greater Manchester Sustainabilty and Transformation Partnership (STP).				In 2015/16 there were 4,306 people who 1 been diagnosed with a stroke in NHS Heywood, Middleton and Rochdale CCG. the same period there were 320 admission recorded on the Sentinel Stroke National Audit Programme (SSNAP). Atrial fibrillation is a known risk factor for stroke. The diagnosed prevalence in this CCG is 1.4% and the estimated prevalence is 2.2%. There could be an additional 740				
Key facts	Local	Comparator CCGs	STP	England	people with undiagnosed atrial fibrillation i the CCG.			
Stroke or transient ischaemic attacks prevalence (per cent) Atrial fibrillation	1.9	1.9	1.7		In this CCG, 56.8% of stroke patients admitted who had a history of atrial fibrillation were not prescribed anticoagulation prior to their stroke. This is higher than the England rate (52.5%).			
prevalence (per cent)	1.4	1.6	1.5	1.7	In the SSNAP audit data for this CCG it wa			
Estimated atrial fibrillation prevalence (per cent)	2.2	2.3	2.2	2.4	recorded that 14.3% of people who had A diagnosed prior to their stroke admission a were not on anticoagulation at admission were either completely independent or har			
Stroke admissions with history of atrial fibrillation <u>not</u> prescribed anticoagulation prior to stroke (per cent)	56.8	54.3	-	52.5	no significant disability after their stroke, however, 23.8% of people died. Early mortality rates (under 75 years of ag for stroke in NHS Heywood, Middleton and Rochdale CCG were 17.7 per 100,000			
Applicable patients who are assessed at six months following a stroke (per cent)	60.3	38.8		29.7	people. This was significantly higher than England rate (13.6). Later mortality rates (over 75 years of age from stroke in NHS Heywood, Middleton a			
Stroke early mortality (under 75) (rate per 100,000)	17.7	•	17.3	13.6	Rochdale CCG were 688.2 per 100,000 people. This was significantly higher than England rate (594.7).			
	688.2	-	657.3	594.7				

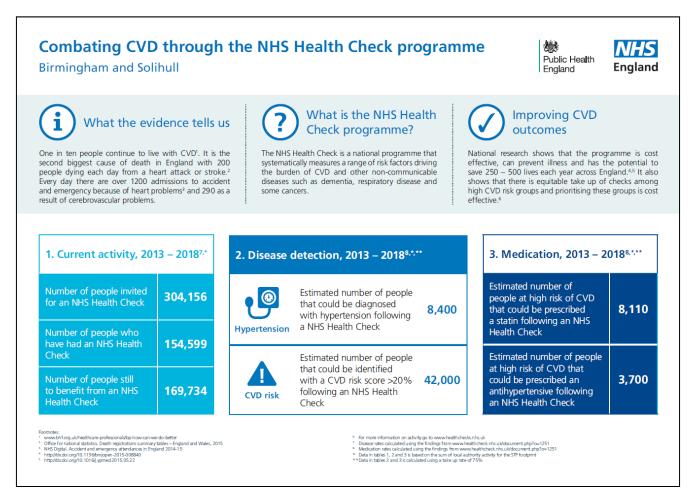
The complications of AF and hypertension - CVD profiles

- CVD profiles •
- Diabetes, kidney disease, CHD, stroke •
- One for each CCG
- Covers the whole pathway of care
 - Diagnosis
 - Primary care management ٠
 - Secondary care/complications
- Interactive and report based versions ۲

https://fingertips.phe.org.uk/profile/cardiovascular



What is the impact of better diagnosis? Health checks STP fact sheets



http://www.healthcheck.nhs.uk/commissioners_and_providers/data/size_of_the_prize_reducing_heart_attacks_and_strokes/

What is the impact of better Public Health England management? the size of the prize

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

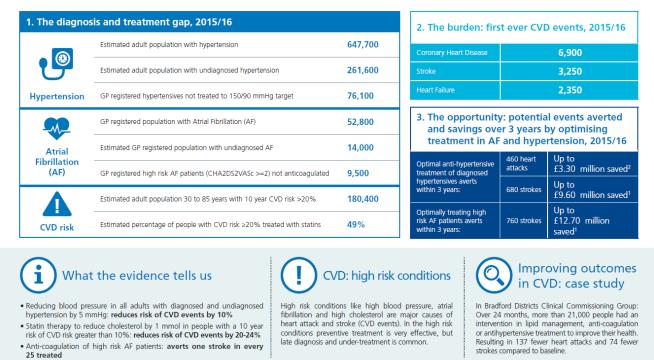


戀

Public Health

England

Cheshire and Merseyside



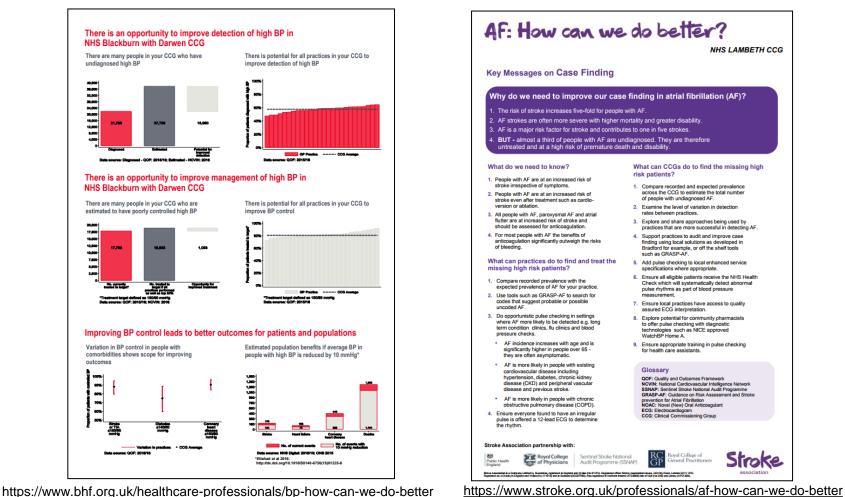
Footbolles: Team Dollary, and Physicians (DDIG). Sonting Explored Hadrond Pargummer, Cost and Costelfactiveness analysis. Technical report Feer M 2012). Choices Richer dates are England: The human and Haurical cost Patential averts calculated with NMI (InNMI) cons). For blood pressure, and hypertrake medicines for file years to growent dealth, heart attacks, and strokes: In a 100 for heart attack, in of for strokes, for Al, wardin on et J. Syanz J. In 32 for tanke, Almahem may be lower, as some patients may be on prior transmer. Hypertension and AF populations and treatment estimates: QOF 2015/16. CVD high risk estimate numbers: http://www.bmj.com/content/34/A/bmj.ed181. CVD high risk statin treatment: http://acumal.obs.org/rologneedicinea/tricker/did=10.1371/journal.pmed.1002169

http://www.healthcheck.nhs.uk/commissioners_and_providers/data/size_of_the_prize_reducing_heart_attacks_and_strokes/



Making the case for improved primary care management

Blood pressure and atrial fibrillation how can we do better?



15 www.ncvin.org.uk



Where can you find NCVIN tools?

NCVIN resource pages

🃾 GOV.UK			P
Search	Q	Departments Worldwide How government works Get involved Policies Publications Consultations Statistics Announcements	
Home			Hiç
			Child
Guidance			Heal
	ular dise	ase data and	Long
analysis: a g profession	-	health	Na
p			Adul
From:	Public Health Englan	d	AMR
Published:	3 May 2017	Atlas	
Last updated:	4 September 2017, s	Cano	
			Card
		nd health professionals can use data	Child
		t cardiovascular services	Diab
and interventions	i.		Dise
			End
Contents		This guidance is for commissioners, public health directors and others	Heal
- CVD primary care intell		involved in the local planning and provision of services and interventions that support people with cardiovascular disease (CVD) conditions.	Heal
 Summary profiles of cardiovascular data Estimates of CVD prevalence 			Heat
		Public Health England (PHE) collates and analyses available CVD data and produces intelligence resources to help with improving services and	Inha
 — Spending on care versu outcomes 	is patient	outcomes. This guidance supports health professionals with using these	Lear
- Other resources		resources to make or influence decisions about local services.	Live
- Further information		Cardiovascular disease includes:	Loca

https://www.gov.uk/guidance/cardiovascular-diseasedata-and-analysis-a-guide-for-health-professionals

PHE profiles webpages

Public Health Profiles

Highlighted Profiles

Child and Maternal Health lealth Profiles .onger Lives Mental Health Dementia and Neurology National General Practice Profiles Public Health Outcomes Framework

National Public Health Profiles

Adult Social Care	Local Tobacco Control Profiles				
AMR local indicators	Longer Lives				
Atlas of Variation	Marmot Indicators				
Cancer Services	Mental Health Dementia and Neurology				
Cardiovascular Disease	National General Practice Profiles				
Child and Maternal Health	NCMP Local Authority Profile				
Diabetes	NHS Health Check				
Disease and risk factor prevalence	Older People's Health and Wellbeing				
End of Life Care Profiles	Oral Health Profile				
Health assets profile	Peer benchmarking tool				
Health Profiles	Physical Activity				
Health Protection	Public Health Outcomes Framework				
Inhale - INteractive Health Atlas of Lung	Segment Tool				
conditions in England	Sexual and Reproductive Health Profiles				
Learning Disability Profiles	TB Strategy Monitoring Indicators				
Liver Disease Profiles					
Local Alcohol Profiles for England	Wider Determinants of Health				

https://fingertips.phe.org.uk/





To subscribe to the NCVIN quarterly newsletter or to contact the NCVIN team please email: <u>ncvin@phe.gov.uk</u>

NCVIN tools and resources can be accessed on the links below:

- NCVIN resource page <u>https://www.gov.uk/guidance/cardiovascular-disease-data-and-analysis-a-guide-for-health-professionals</u>
- PHE profiles pages <u>https://fingertips.phe.org.uk</u>
- NCVIN CVD primary care intelligence packs
 <u>https://www.gov.uk/government/collections/cardiovascular-disease-primary-care-intelligence-packs#midlands-and-east-of-england-commissioning-region</u>
- NCVIN CVD profiles https://fingertips.phe.org.uk/profile/cardiovascular