

Protecting and improving the nation's health

# CVD: Primary Care Intelligence Packs

### NHS Leeds North CCG

June 2017 Version 1

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## Introduction

This intelligence pack has been compiled by GPs and nurses and pharmacists in the Primary Care CVD Leadership Forum in collaboration with the National Cardiovascular Intelligence Network

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Primary Care CVD

### Local intelligence as a tool for clinicians and commissioners to improve outcomes for our patients

Why should we use this CVD Intelligence Pack

The high risk conditions for cardiovascular disease (CVD) - such as hypertension, atrial fibrillation, high cholesterol, diabetes, non-diabetic hyperglycaemia and chronic kidney disease - are the low hanging fruit for prevention in the NHS because in each case late diagnosis and suboptimal treatment is common and there is substantial variation. High quality primary care is central to improving outcomes in CVD because primary care is where much prevention and most diagnosis and treatment is delivered.

This cardiovascular intelligence pack is a powerful resource for stimulating local conversations about quality improvement in primary care. Across a number of vascular conditions, looking at prevention, diagnosis, care and outcomes, the data allows comparison between clinical commissioning groups (CCGs) and between practices.

This is not about performance management because we know that variation can have more than one interpretation. But patients have a right to expect that we will ask challenging questions about how the best practices are achieving the best, what average or below average performers could do differently, and how they could be supported to perform as well as the best.

#### How to use the CVD intelligence pack

The intelligence pack has several sections – CVD prevention, hypertension, stroke and atrial fibrillation (AF), diabetes, kidney disease, heart disease and heart failure. Each section has one slide of narrative that makes the case and asks some questions. This is followed by data for a number of indicators, each with benchmarked comparison between CCGs and between practices.

Use the pack to identify where there is variation that needs exploring and to start asking challenging questions about where and how quality could be improved. We suggest you then develop a local action plan for quality improvement – this might include establishing communities of practice to build clinical leadership, systematic local audit to get a better understanding of the gaps in care and outcomes, and developing new models of care that mobilise the wider primary care team to reduce burden on general practice.

#### Data and methods

This slide pack compares the clinical commissioning group (CCG) with CCGs in its strategic transformation plan (STP) and England. Where a CCG is in more than one STP, it has been allocated to the STP with the greatest geographical or population coverage. The slide pack also compares the CCG to its 10 most similar CCGs in terms of demography, ethnicity and deprivation. For information on the methodology used to calculate the 10 most similar CCGs please go to: http://www.england.nhs.uk/resources/resources-for-ccgs/comm-for-value/

The 10 most similar CCGs to NHS Leeds North CCG are: NHS Leeds South and East CCG NHS West Essex CCG NHS Calderdale CCG NHS Greater Huddersfield CCG NHS Greater Preston CCG NHS North & West Reading CCG NHS North & West Reading CCG NHS Bury CCG NHS Airedale, Wharfedale and Craven CCG NHS Warwickshire North CCG NHS West Cheshire CCG

The majority of data used in the packs is taken from the 2015/16 Quality and Outcomes Framework (QOF). Where this is not the case, this is indicated in the slide. All GP practices that were included in the 2015/16 QOF are included. Full source data are shown in the appendix.

For the majority of indicators, the additional number of people that would be treated if all practices were to achieve as well as the average of the top achieving practices is calculated. This is calculated by taking an average of the intervention rates (ie the denominator includes exceptions) for the best 50% of practices in the CCG and applying this rate to all practices in the CCG. Note, this number is not intended to be proof of a realisable improvement; rather it gives an indication of the magnitude of available opportunity.

## Why does variation matter?

The variation that exists between demographically similar CCGs and between practices illustrates the local potential to improve care and outcomes for our patients

Benchmarking is helpful because it highlights variation.

Of course it has long been acknowledged that some variation is inevitable in the healthcare and outcomes experienced by patients.

But John Wennberg, who has championed research into clinical variation over four decades and who founded the pioneering Dartmouth Atlas of Health Care, concluded that much variation is unwarranted – ie it cannot be explained on the basis of illness, medical evidence, or patient preference, but is accounted for by the willingness and ability of doctors to offer treatment. A key observation about benchmarking data is that it does not tell us why there is variation. Some of the variation may be explained by population or case mix and some may be unwarranted. We will not know unless we investigate.

Benchmarking may not be conclusive. Its strength lies not in the answers it provides but in the questions it generates for CCGs and practices.

For example:

- 1. How much variation is there in detection, management, exception reporting and outcomes?
- 2. How many people would benefit if average performers improved to the level of the best performers?
- 3. How many people would benefit if the lowest performers matched the achievement of the average?
- 4. What are better performers doing differently in the way they provide services in order to achieve better outcomes?
- 5. How can the CCG support low and average performers to help them match the achievement of the best?
- 6. How can we build clinical leadership to drive quality improvement?

There are legitimate reasons for exception reporting. But .....

Excepting patients from indicators puts them at risk of not receiving optimal care and of having worse outcomes. It is also likely to increase health inequalities. The substantial variation seen in exception reporting for some indicators suggests that some practices are more effective than others at reaching their whole population. Benchmarking exception reporting allows us to identify the practices that need support to implement the strategies adopted by low excepting practices.

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### Cluster methodology: your most similar practices

Each practice has been grouped on the basis of demographic data into 15 national clusters. These demographic factors cover:

- deprivation (practice level)
- age profile (% < 5, % < 18, % 15-24, % 65+, % 75+, % 85+)
- ethnicity (% population of white ethnicity)
- practice population side

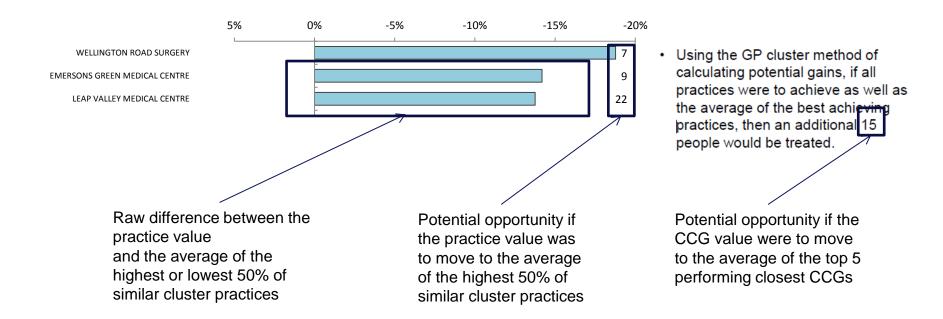
These demographic factors closely align with those used to calculate the "Similar 10 CCGs".

These demographic factors have been used to compare practices with similar populations to account for potential factors which may drive variation. Some local interpretation will need to be applied to the data contained within the packs as practices with significant outlying population characteristics e.g. university populations or care home practices will need further contextualisation.

Further detailed information including full technical methodology and a full PDF report on each of the 15 practice clusters is available here: <u>https://github.com/julianflowers/geopractice</u>.

### Cluster methodology: calculating potential gains

The performance of every practice in the GP cluster contributes to the average of the top performing 50% of practices to form a benchmark.



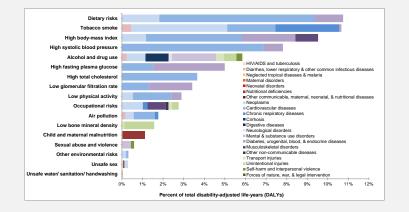
The difference between the benchmark and the selected practices is displayed on this chart. The benchmark will most likely be different for different practices as they are in different clusters, so the difference is the key measure here. If the practice performance is below the benchmark, the difference is applied to the denominator plus exceptions to demonstrate potential gains on a practice basis. The potential gains on a CCG basis are calculated based on the difference between the top 5 performing closest CCGs and the selected CCG, applied to the denominator plus exceptions.

## **CVD** prevention

## **CVD** prevention

"The NHS needs a radical upgrade in prevention if it is to be sustainable" 5 year Forward View 2014

This is because England faces an epidemic of largely preventable non-communicable diseases, such as heart disease and stroke, cancer, Type 2 diabetes and liver disease.



The Global Burden of Disease Study (next slide) shows us that the leading causes of premature mortality include diet, tobacco, obesity, raised blood pressure, physical inactivity and raised cholesterol. The radical upgrade in prevention needs population-level approaches. But it also needs interventions in primary care for individuals with behavioural and clinical risk factors. The size of the prevention problem

- 2/3 of adults are obese or overweight
- 1/3 of adults are physically inactive
- average smoking prevalence is 17% but is much higher in some communities
- in high risk conditions like atrial fibrillation, high blood pressure, diabetes and high ten year CVD risk score, up to half of all people do not receive preventive treatments that are known to be highly effective at preventing heart attacks and strokes
- around 90% of people with familial hypercholesterolaemia are undiagnosed and untreated despite their average 10 year reduction in life expectancy

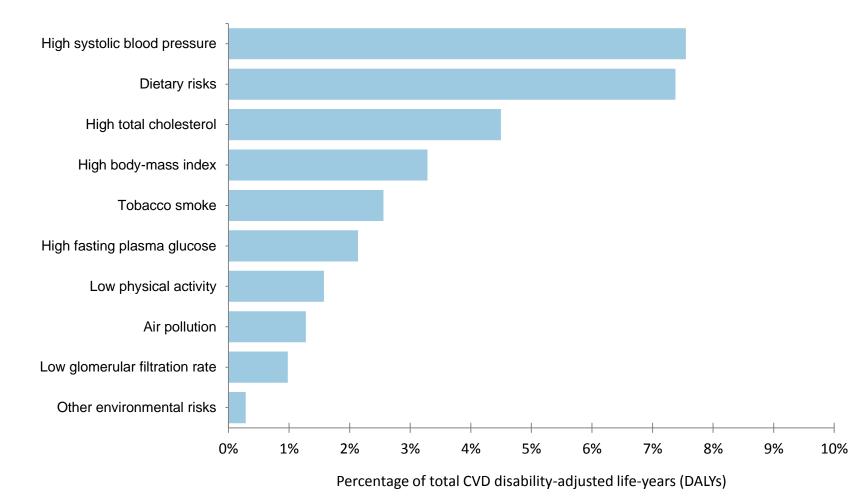
Social prescribing and wellbeing hubs offer new models for supporting behaviour change while reducing burden on general practice.

The NHS Health Check is a systematic approach to identifying local people at high risk of CVD, offering behaviour change support and early detection of the high risk but often undiagnosed conditions such as hypertension, atrial fibrillation, CKD, diabetes and prediabetes.

Question: What proportion of our local eligible population is receiving the NHS Health Check and how effective is the follow-up management of their clinical risk factors in primary care?

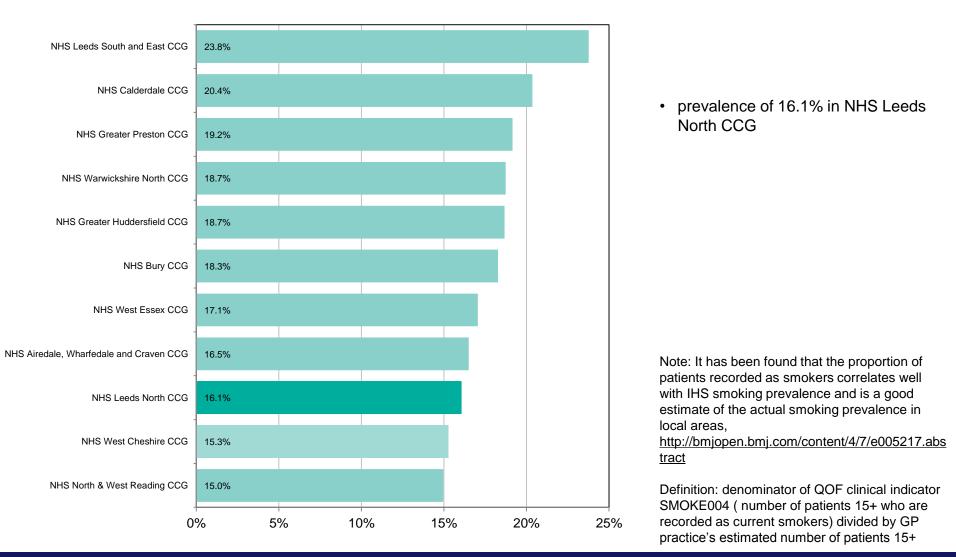
### Global Burden of Disease Study 2015

Risk Factors for premature death and disability caused by CVD in England, expressed as a percentage of total disability-adjusted life-years



### Estimated smoking prevalence (QOF) by CCG

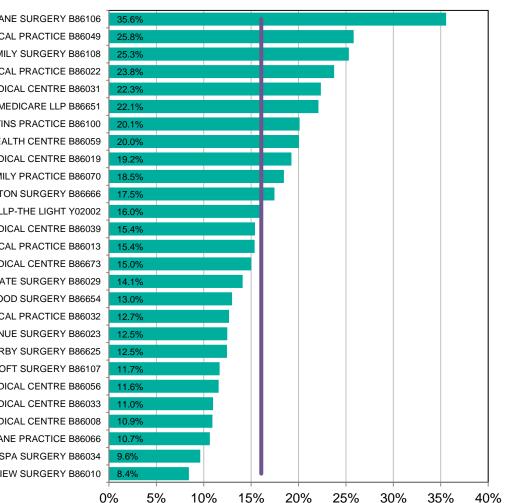
### Comparison with demographically similar CCGs



### Estimated smoking prevalence (QOF) by GP practice

GP Practice —CCG

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- 28,121 people who are recorded as smokers in NHS Leeds North CCG
- GP practice range: 8.4% to 35.6%

Note: This method is thought to be a reasonably robust method in estimating smoking prevalence for the majority of GP practices. However, caution is advised for extreme estimates of smoking prevalence and those with high numbers of smoking status not recorded and exceptions.

## Hypertension

## Hypertension

The Global Burden of Disease Study confirmed high blood pressure as a leading cause of premature death and disability

#### High blood pressure is common and costly

- · it affects around a quarter of all adults
- the NHS costs of hypertension are around £2bn
- social costs are probably considerably higher

#### What do we know?

- at least half of all heart attacks and strokes are caused by high blood pressure and it is a major risk factor for chronic kidney disease and cognitive decline
- treatment is very effective every 10mmHg reduction in systolic blood pressure lowers risk of heart attack and stroke by 20%
- despite this 4 out of 10 adults with hypertension, over 5 and a half million people in England, remain undiagnosed
- and even when the condition is identified, treatment is often suboptimal, with blood pressure poorly controlled in about 1 out of 3 individuals

#### The Missing Millions

On average, each CCG in England has 26,000 residents with undiagnosed hypertension – these individuals are unaware of their increased cardiovascular risk and are untreated.

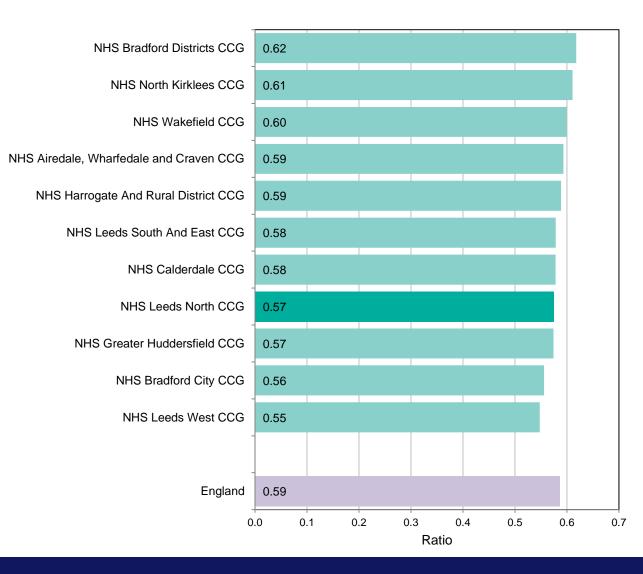
#### What questions should we ask in our CCG?

- 1. for each indicator how wide is the variation in achievement and exception reporting?
- 2. how many people would benefit if all practices performed as well as the best?
- 3. how can we support practices who are average or below average to perform as well as the best in:
  - detection of hypertension
  - management of hypertension

#### What might help?

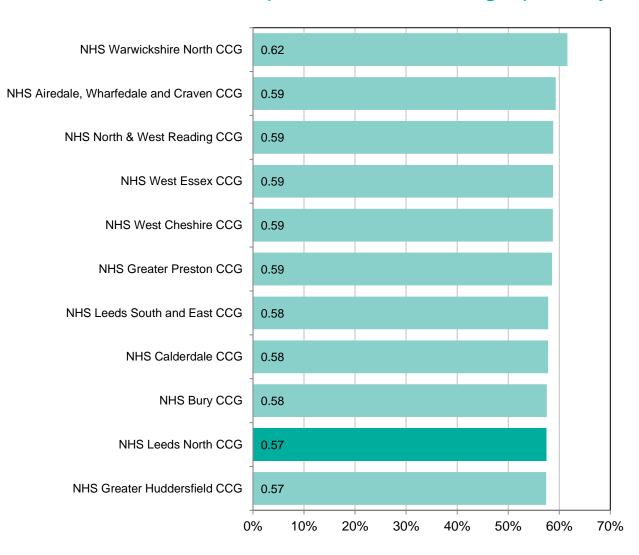
- support practices to share audit data and systematically identify gaps and opportunities for improved detection and management of hypertension
- work with practices and local authorities to maximise uptake and follow up in the NHS Health Check
- support access to self-test BP stations in waiting rooms and to ambulatory blood pressure monitoring.
- commission community pharmacists to offer blood pressure measurement, diagnosis and management support, including support for adherence to medication

### Hypertension observed prevalence compared with expected prevalence by CCG Comparison with CCGs in the STP



- the ratio of those diagnosed with hypertension versus those expected to have hypertension is 0.57. This compares to 0.59 for England
- this suggests that 57% of people with hypertension have been diagnosed

Note: this slide shows Hypertension prevalence estimates created using data from QOF hypertension registers 2014/15 and Undiagnosed hypertension estimates for adults 16 years and older. 2014. Department of Primary Care & Public Health, Imperial College London Hypertension observed prevalence compared with expected prevalence by CCG Comparison with demographically similar CCGs

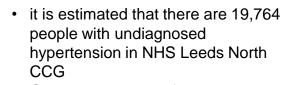


#### Hypertension observed prevalence compared with expected prevalence by GP practice

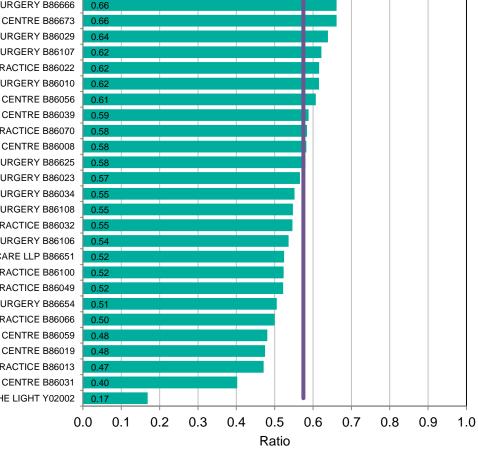
GP practice ——CCG

0.68

NEW MEDICAL CENTRE B86033 **NEWTON SURGERY B86666 BRAMHAM MEDICAL CENTRE B86673** WESTGATE SURGERY B86029 MOORCROFT SURGERY B86107 OAKWOOD LANE MEDICAL PRACTICE B86022 COLLINGHAM CHURCH VIEW SURGERY B86010 SHADWELL MEDICAL CENTRE B86056 ALLERTON MEDICAL CENTRE B86039 AIREBOROUGH FAMILY PRACTICE B86070 ALWOODLEY MEDICAL CENTRE B86008 WETHERBY SURGERY B86625 THE AVENUE SURGERY B86023 SPA SURGERY B86034 CHAPELTOWN FAMILY SURGERY B86108 CHEVIN MEDICAL PRACTICE B86032 FOUNDRY LANE SURGERY B86106 ONE MEDICARE LLP B86651 ST MARTINS PRACTICE B86100 WOODHOUSE MEDICAL PRACTICE B86049 OAKWOOD SURGERY B86654 THE STREET LANE PRACTICE B86066 MEANWOOD HEALTH CENTRE B86059 RUTLAND LODGE MEDICAL CENTRE B86019 THE NORTH LEEDS MEDICAL PRACTICE B86013 WESTFIELD MEDICAL CENTRE B86031 ONE MEDICARE LLP-THE LIGHT Y02002

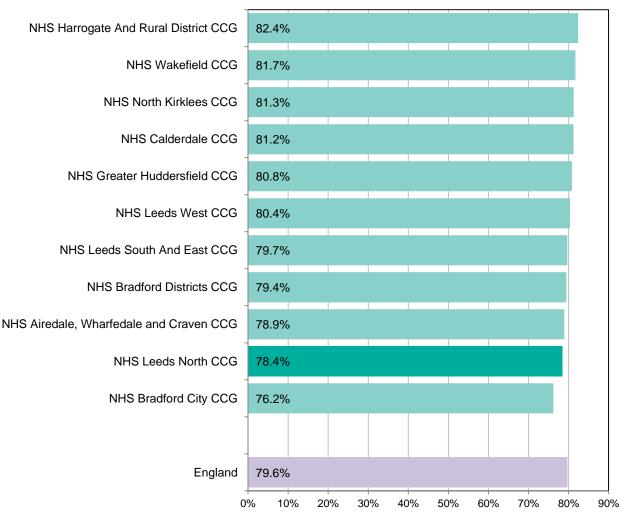


 GP practice range of observed to expected hypertension prevalence 0.17 to 0.68



Percentage of patients with hypertension whose last blood pressure reading (measured in the preceding 12 months) is 150/90 mmHg or less by CCG

### Comparison with CCGs in the STP

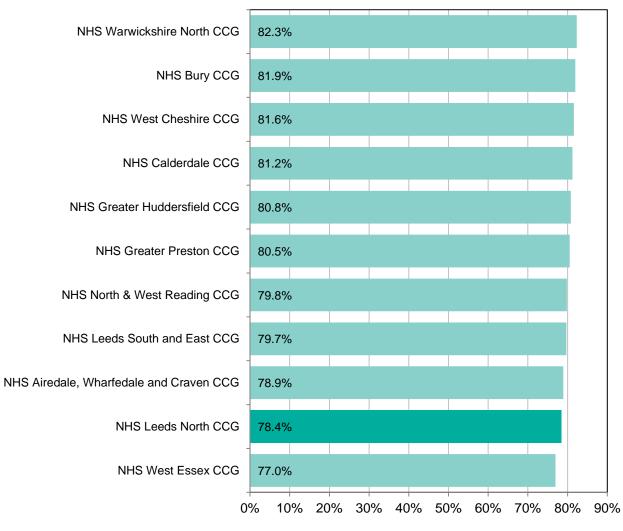


- 27,280 people with hypertension (diagnosed)\* in NHS Leeds North CCG
- 21,388 (78.4%) people whose blood pressure is <= 150/90</li>
- 1,307 (4.8%) people who are excepted from optimal control
- 4,585 (16.8%) additional people whose blood pressure is not <= 150/90

\*Using QOF clinical indicator HYP006 denominator plus exceptions

Percentage of patients with hypertension whose last blood pressure reading (measured in the preceding 12 months) is 150/90 mmHg or less by CCG

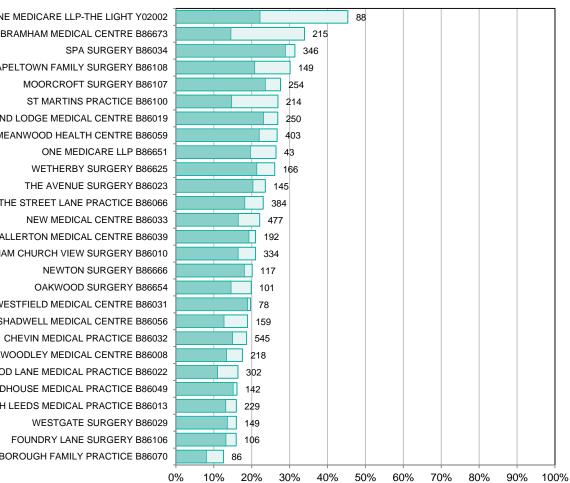
#### Comparison with demographically similar CCGs



### Percentage of patients with hypertension whose last blood pressure reading (measured in the preceding 12 months) is not 150/90 mmHg or less by GP practice

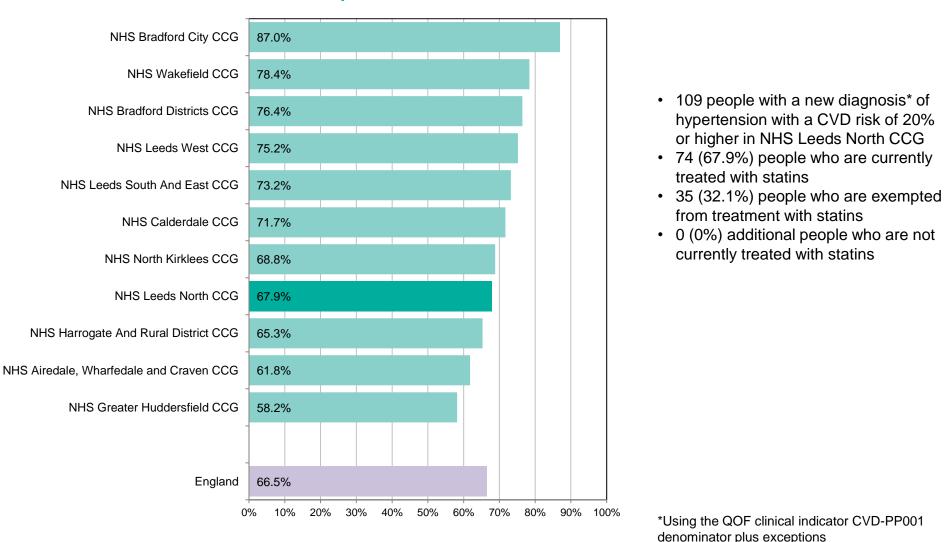
Exceptions reported No treatment

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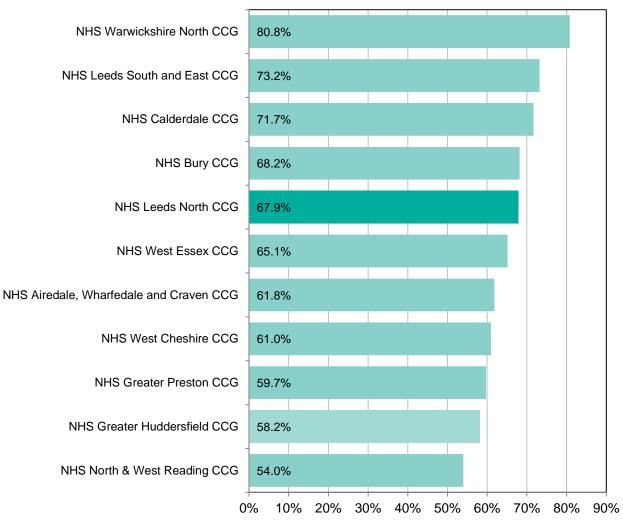
- in total, including exceptions, there are 5,892 people whose blood pressure is not <= 150/90
- GP practice range: 12.6% to 45.4%

New diagnosis of hypertension who have been given a CVD risk assessment whose CVD risk exceeds 20% and treated with statins by CCG Comparison with CCGs in the STP



New diagnosis of hypertension who have been given a CVD risk assessment whose CVD risk exceeds 20% and treated with statins by CCG

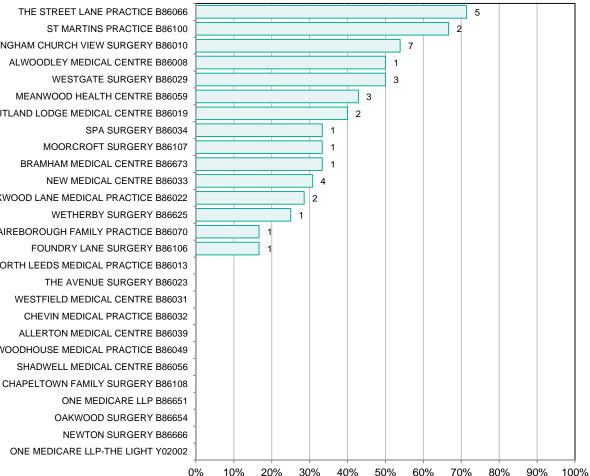
#### Comparison with demographically similar CCGs



### New diagnosis of hypertension who have been given a CVD risk assessment whose CVD risk exceeds 20% and not treated with statins by GP practice

No treatment Exceptions reported

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- in total, including exceptions, there are 35 people who are not treated with statins
- GP practice range: 0.0% to 71.4%

### Stroke

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## Stroke prevention

Only a half of people with known AF who then suffer a stroke have been anticoagulated before their stroke.

Stroke is one of the leading causes of premature death and disability. Stroke is devastating for individuals and families, and accounts for a substantial proportion of health and social care expenditure.

Atrial fibrillation increases the risk of stroke by a factor of 5, and strokes caused by AF are often more severe, with higher mortality and greater disability.

Anticoagulation reduces the risk of stroke in people with AF by two thirds.

Despite this, AF is underdiagnosed and under treated: up to a third of people with AF are unaware they have the condition and even when diagnosed inadequate treatment is common – large numbers do not receive anticoagulants or have poor anticoagulant control.

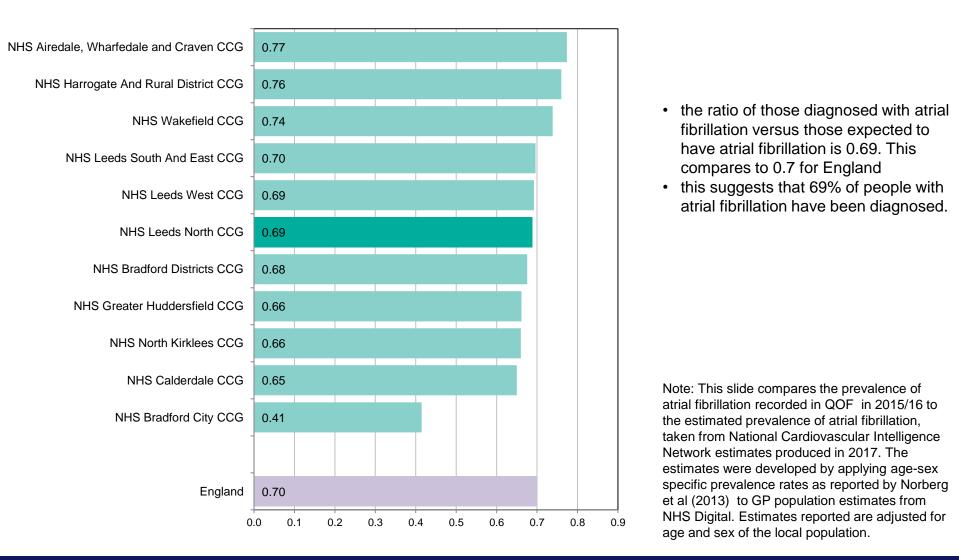
#### What questions should we ask in our CCG?

- 1. for each indicator how wide is the variation in detection, treatment and exception reporting?
- 2. how many people would benefit if all practices performed as well as the best?
- 3. how can we support practices who are average and below average to perform as well as the best in detection of atrial fibrillation and stroke prevention with anticoagulation.

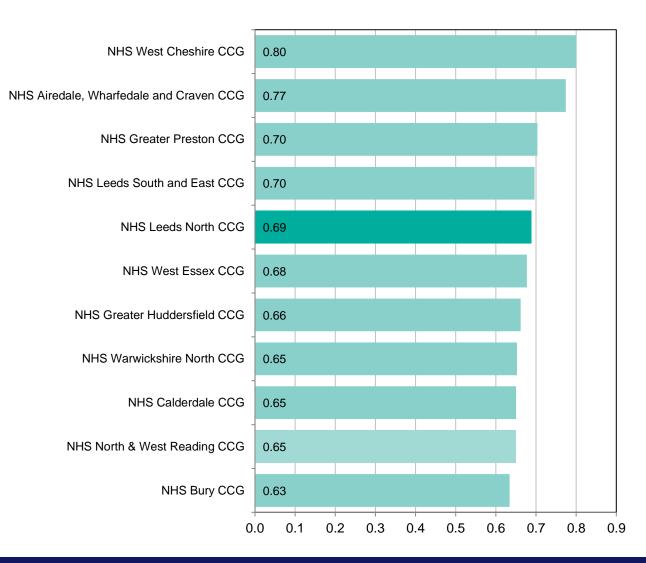
#### What might help?

- increase opportunistic pulse checking especially in over 65s
- support practices to share audit data and systematically identify gaps and opportunities for improved detection and management of AF - eg GRASP-AF
- promote systematic use of CHADS-VASC and HASBLED to ensure those at high risk are offered stroke prevention
- promote systematic use of Warfarin Patient Safety Audit Tool to ensure optimal time in therapeutic range for people on warfarin
- develop local consensus statement on risk-benefit balance for anticoagulants, including the newer treatments (NOACs)
- work with practices and local authorities to maximise uptake and clinical follow up in the NHS Health Check
- commission community pharmacists to offer pulse checks, anticoagulant monitoring, and support for adherence to medication

### Atrial fibrillation observed prevalence compared to expected prevalence by CCG Comparison with CCGs in the STP



### Atrial fibrillation observed prevalence compared to expected prevalence by CCG Comparison with demographically similar CCGs

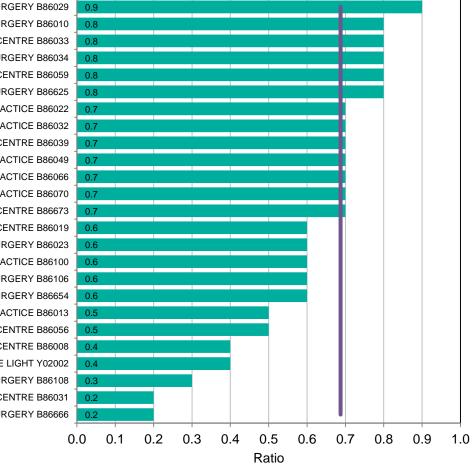


#### Atrial fibrillation observed prevalence compared with expected prevalence by GP practice

GP practice —CCG

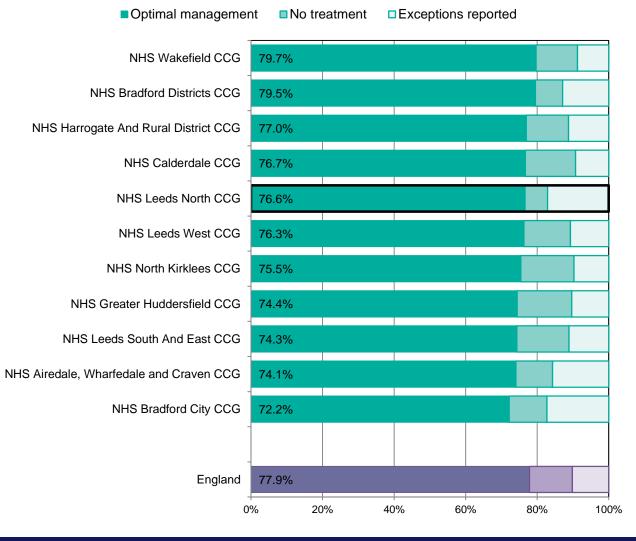
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- it is estimated that there are 4,899 people with undiagnosed atrial fibrillation in NHS Leeds North CCG
- GP practice range of observed to expected atrial fibrillation prevalence 0.2 to 0.9



In patients with AF with a CHA2DS2-VASc score of 2 or more, the percentage treated with anti-coagulation therapy by CCG

### Comparison with CCGs in the STP

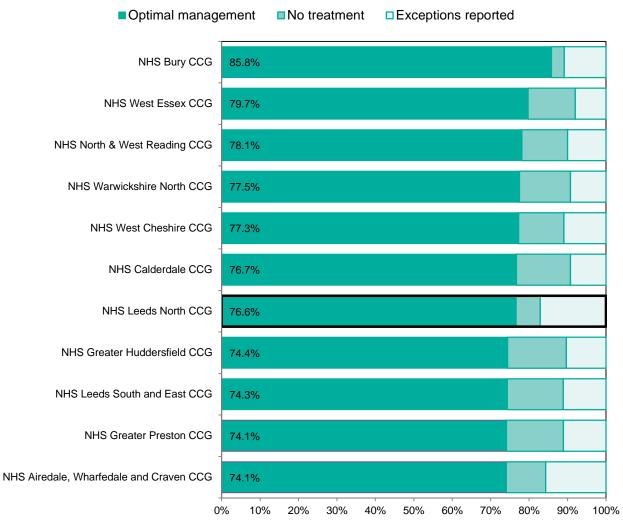


- 2,733 people with atrial fibrillation\* with a CHA2DS2-VASc score >= 2 in NHS Leeds North CCG
- 2,094 (76.6%) people treated with anti-coagulation therapy
- 467 (17.1%) people who are exceptions
- 172 (6.3%) additional people with a recorded CHA2DS2-VASc score >= 2 who are not treated

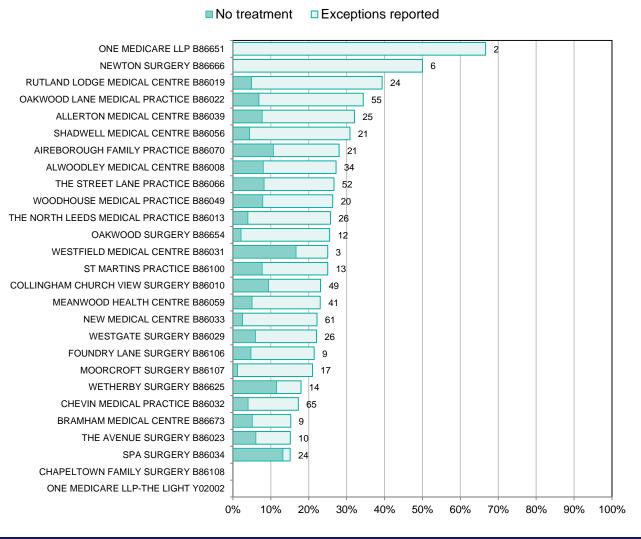
<sup>\*</sup>Using the QOF clinical indicator AF007 denominator plus exceptions

# In patients with AF with a CHA2DS2-VASc score of 2 or more, the percentage treated with anti-coagulation therapy by CCG

#### Comparison with demographically similar CCGs

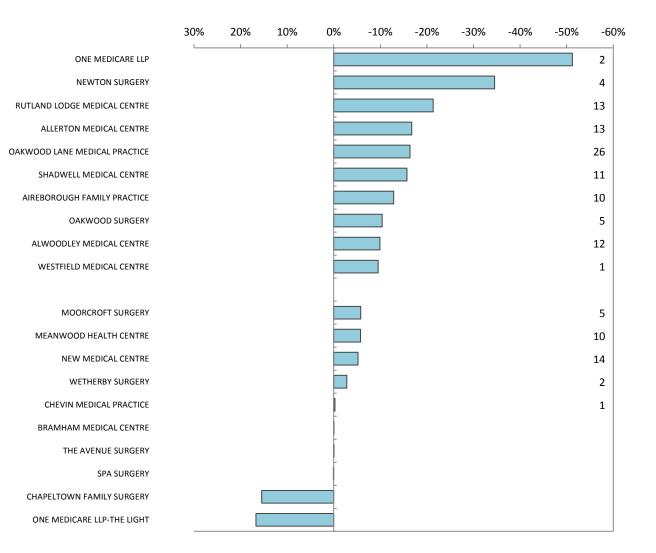


# In patients with AF with a CHA2DS2-VASc score of 2 or more, the percentage treated with anti-coagulation therapy by GP practice



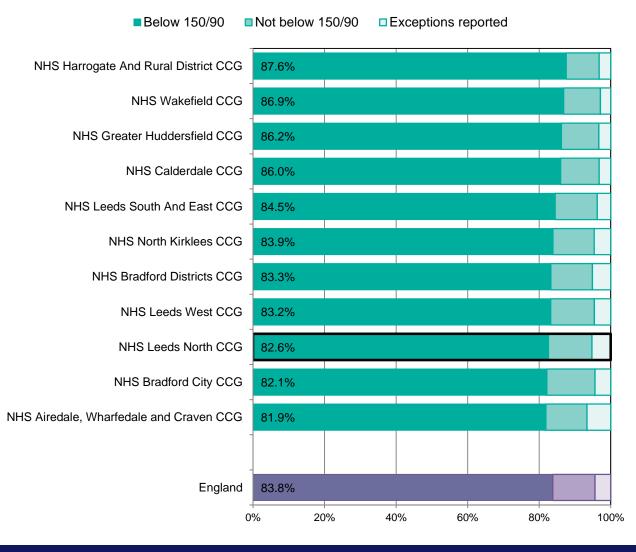
- in total, including exceptions, there are 639 people with a recorded CHA2DS2-VASc score >= 2 who are not treated
- GP practice range: 0.0% to 66.7%

# In patients with AF with a CHA2DS2-VASc score of 2 or more, the percentage treated with anti-coagulation therapy by GP practice – opportunities compared to GP cluster



 using the GP cluster method of calculating potential gains, if each practice was to achieve as well as the upper quartile of its national cluster, then an additional 191 people would be treated

Details of this methodology are available on slide 9. Click <u>here to view them.</u> Percentage of patients with a history of stroke whose last blood pressure reading (measured in the preceding 12 months) is 150/90 mmHg or less by CCG Comparison with CCGs in the STP

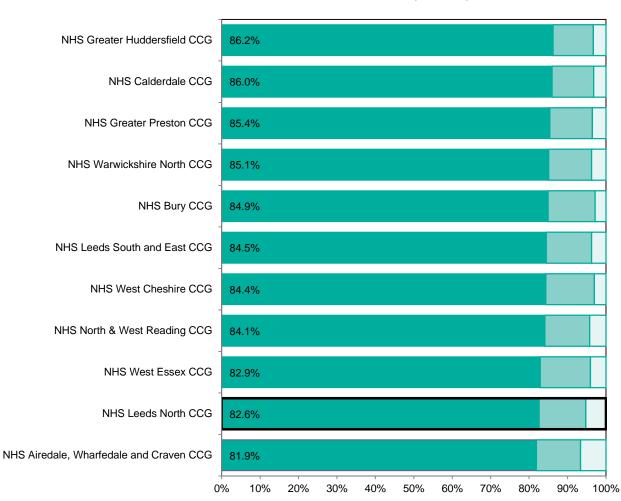


- 3,600 people with a history of stroke or TIA\* in NHS Leeds North CCG
- 2,974 (82.6%) people whose blood pressure is <= 150 / 90</li>
- 188 (5.2%) people who are exceptions
- 438 (12.2%) additional people whose blood pressure is not <= 150 / 90</li>

\*Using the QOF clinical indicator STIA003 denominator plus exceptions

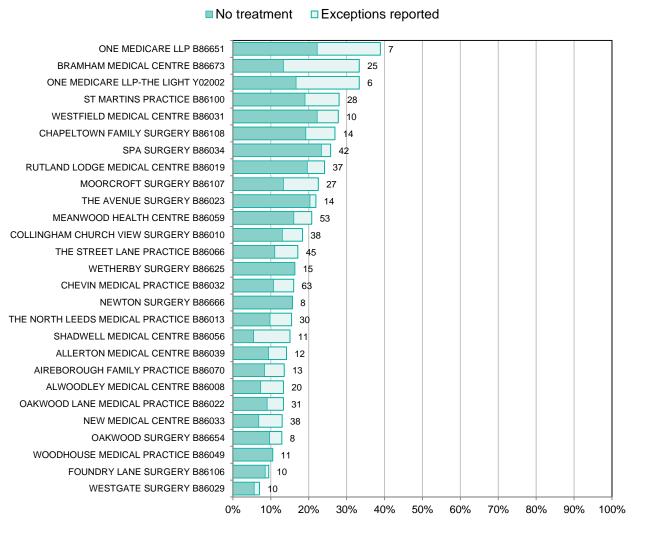
Percentage of patients with a history of stroke whose last blood pressure reading (measured in the preceding 12 months) is 150/90 mmHg or less by CCG

#### Comparison with demographically similar CCGs



Below 150/90 Not below 150/90 Exceptions reported

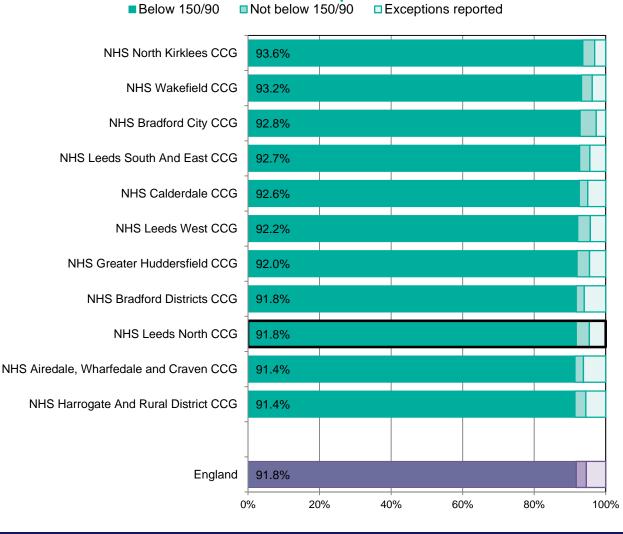
# Percentage of patients with a history of stroke whose last blood pressure reading (measured in the preceding 12 months) is not 150/90 mmHg or less by GP practice



- in total, including exceptions, there are 626 people whose blood pressure is not <= 150 / 90</li>
- GP practice range: 7.0% to 38.9%

# Percentage of patients with a stroke shown to be non-haemorrhagic, or a history of TIA, who have a record in the preceding 12 months that an anti-platelet agent, or an anti-coagulant is being taken by CCG



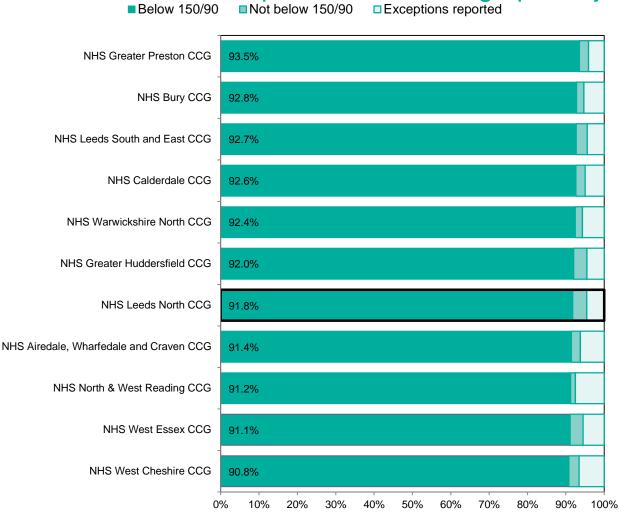


- 2,357 people with a stroke shown to be non-haemorrhagic\* in NHS Leeds North CCG
- 2,163 (91.8%) people who are taking an anti-platetet agent or anticoagulant
- 107 (4.5%) people who are exceptions
- 87 (3.7%) additional people with no treatment

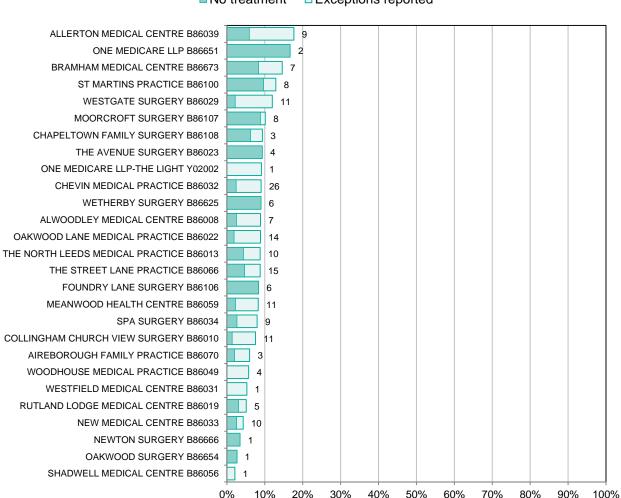
\*Using the QOF clinical indicator STIA007 denominator plus exceptions

# Percentage of patients with a stroke shown to be non-haemorrhagic, or a history of TIA, who have a record in the preceding 12 months that an anti-platelet agent, or an anti-coagulant is being taken by CCG

Comparison with demographically similar CCGs



Percentage of patients with a stroke shown to be non-haemorrhagic, or a history of TIA, who do not have a record in the preceding 12 months that an anti-platelet agent, or an anti-coagulant is being taken by GP practice



No treatment Exceptions reported

- in total, including exceptions, there are 194 people who are not taking an anti-platelet agent or anti-coagulant
- GP practice range: 2.1% to 17.6%

### **Diabetes**

### Diabetes prevention and management

Diabetes costs the NHS £9.8 billion per year – and the prevalence is rising

Type 2 diabetes is often preventable People at high risk of developing type 2 diabetes can be identified through the NHS Health Check, and the disease can be prevented or delayed in many through intensive behaviour change support.

Complications of diabetes are preventable Diabetes is a major cause of premature death and disability and greatly increases the risk of heart disease and stroke, kidney failure, amputations and blindness. 80% of NHS spending on diabetes goes on managing these complications, most of which could be prevented. There are 8 essential care processes, in addition to retinal screening, that together substantially reduce complication rates. Despite this, around a half of people with diabetes do not receive all 8 care processes, and there is widespread variation between CCGs and practices in levels of achievement

#### Type 2 Diabetes in numbers

- diagnosed prevalence 3.0 million
- undiagnosed diabetes 900,000
- non-diabetic hyperglycaemia (high risk of diabetes) 5 million

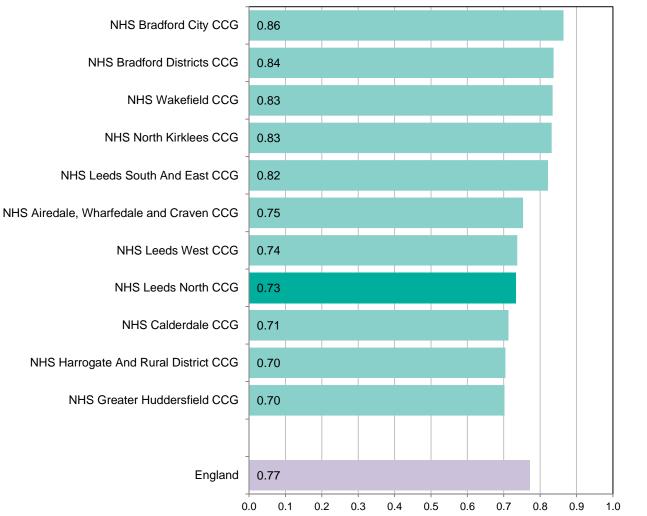
#### What questions should we ask in our CCG?

- 1. for each indicator how wide is the variation in achievement and exception reporting?
- 2. how many people would benefit if all practices performed as well as the best?
- 3. how can we support practices who are average and below average to perform as well as the best in:
  - detection of diabetes
  - delivery of the 8 care processes and achievement of the 3 treatment targets
  - identification and management of Non-diabetic hyperglycaemia

#### What might help

- ensure universal participation by practices in the National Diabetes Audit (NDA)
- benchmark practice level data from the NDA and support practices to explore variation
- increase support for patient education and shared management
- maximise uptake of the NHS Health Check to aid detection of diabetes and Non Diabetic Hyperglycaemia
- maximise uptake of the NHS Diabetes Prevention Programme

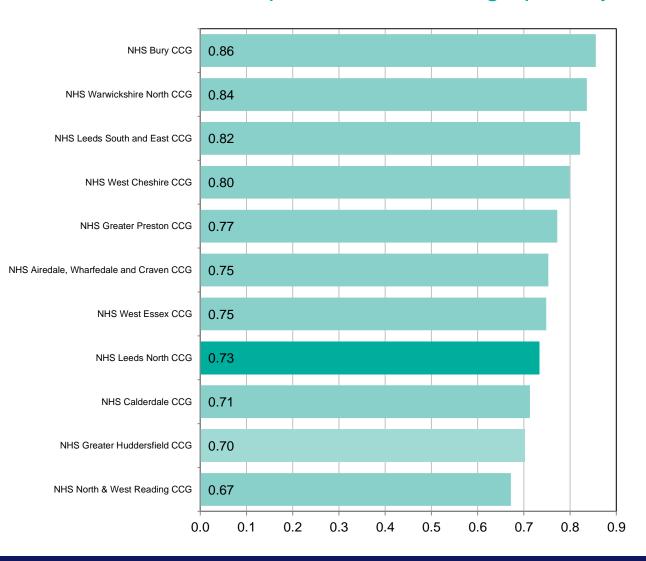
### Diabetes observed prevalence compared with expected prevalence by CCG Comparison with CCGs in the STP



- 0.73 ratio of observed to expected diabetes prevalence in NHS Leeds North CCG, compared to 0.77 in England
- this suggests 73% of people have been diagnosed

Note: This slide compares the prevalence of Diabetes recorded in QOF in 2015/16 to the expected prevalence of Diabetes in 2016 taken from the NCVIN diabetes prevalence model produced in 2015.

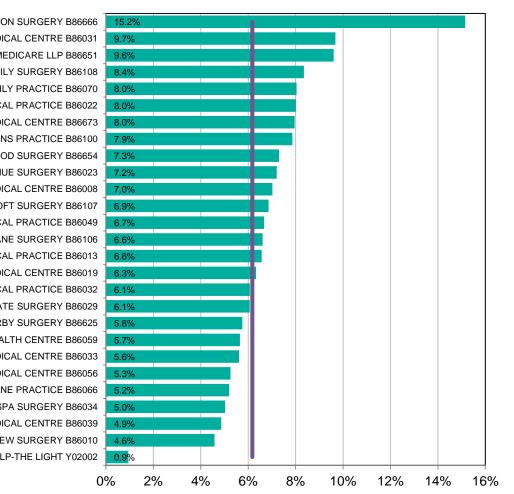
### Diabetes observed prevalence compared with expected prevalence by CCG Comparison with demographically similar CCGs



#### Diabetes prevalence by GP practice

GP practice CCG

**NEWTON SURGERY B86666** WESTFIELD MEDICAL CENTRE B86031 **ONE MEDICARE LLP B86651** CHAPELTOWN FAMILY SURGERY B86108 AIREBOROUGH FAMILY PRACTICE B86070 OAKWOOD LANE MEDICAL PRACTICE B86022 **BRAMHAM MEDICAL CENTRE B86673** ST MARTINS PRACTICE B86100 OAKWOOD SURGERY B86654 THE AVENUE SURGERY B86023 ALWOODLEY MEDICAL CENTRE B86008 MOORCROFT SURGERY B86107 WOODHOUSE MEDICAL PRACTICE B86049 FOUNDRY LANE SURGERY B86106 THE NORTH LEEDS MEDICAL PRACTICE B86013 RUTLAND LODGE MEDICAL CENTRE B86019 CHEVIN MEDICAL PRACTICE B86032 WESTGATE SURGERY B86029 WETHERBY SURGERY B86625 MEANWOOD HEALTH CENTRE B86059 **NEW MEDICAL CENTRE B86033** SHADWELL MEDICAL CENTRE B86056 THE STREET LANE PRACTICE B86066 SPA SURGERY B86034 ALLERTON MEDICAL CENTRE B86039 COLLINGHAM CHURCH VIEW SURGERY B86010 ONE MEDICARE LLP-THE LIGHT Y02002



- GP practice range of observed diabetes 0.9% to 15.2%
- there are an estimated 3,824 people with undiagnosed diabetes in NHS Leeds North CCG

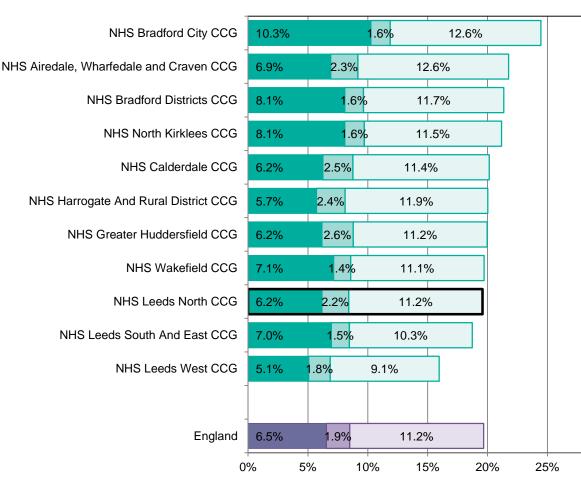
Note: The estimated number of undiagnosed people with diabetes has been calculated by multiplying the estimated prevalence rate to the 2015/16 QOF list size and subtracting the number of people on the diabetes register.

### Expected total prevalence of diabetes and non-diabetic hyperglycaemia

Diabetes prevalence

Undiagnosed diabetes prevalence

Expected non-diabetic hyperglycaemia prevalence

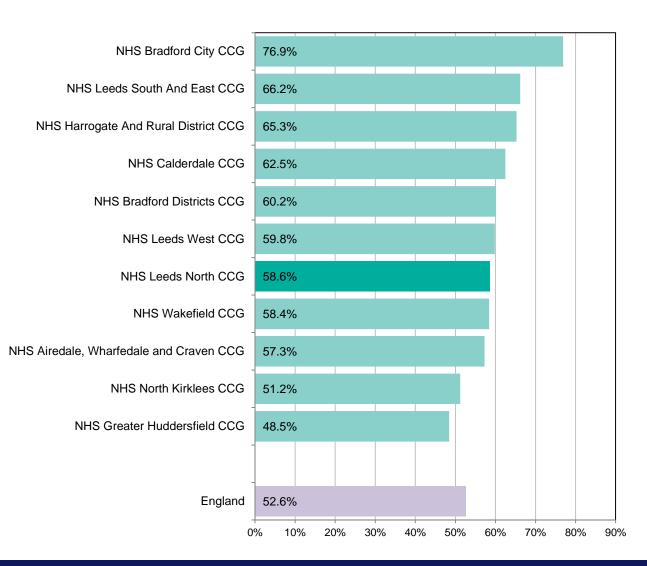


- the estimated total prevalence of diabetes in NHS Leeds North CCG is 8.4% (diagnosed and undiagnosed)
- in addition, there are an estimated 11.2% of people in NHS Leeds North CCG who are at increased risk of developing diabetes (i.e. with nondiabetic hyperglycaemia)
- this means that 19.6% of the population in NHS Leeds North CCG are estimated to have diabetes, or at high risk of developing of diabetes

Note: Prevalence estimates of non-diabetic hyperglycaemia were developed using Health Survey for England (HSE) data. Five years of HSE data were combined, 2009- 2013. The estimates take into account the age, ethnic group and estimated body mass index of the population. These estimates were produced using the GP registered population.

30%

### People with diabetes who had eight care processes by CCG 2015/16



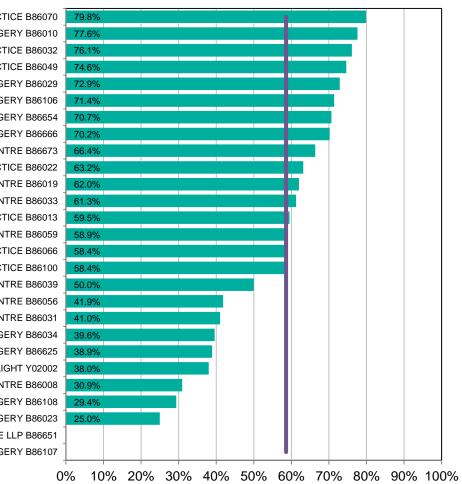
- data on care processes and treatment targets are taken from the National Diabetes Audit (NDA)
- overall practice participation in the 2015/16 audit was 81.4% in England
- in NHS Leeds North CCG, 25 out of 25 practices (100.0%) participated in the NDA
- 58.6% of people with diabetes (of practices who participated in the audit) had the eight recommended care processes in NHS Leeds North CCG, compared to 52.6% in England

#### People with diabetes who had eight care processes by GP practice, 2015/16

GP practice

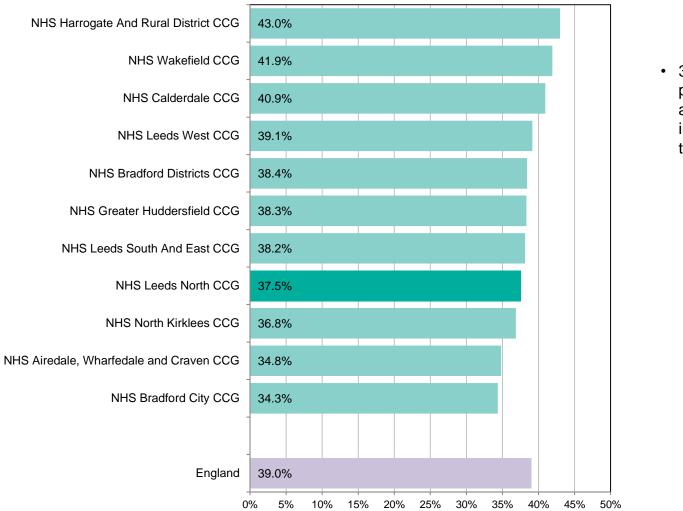
-----Average of practices in the CCG who participated in the audit

AIREBOROUGH FAMILY PRACTICE B86070 79.8% COLLINGHAM CHURCH VIEW SURGERY B86010 77.6% CHEVIN MEDICAL PRACTICE B86032 76.1% WOODHOUSE MEDICAL PRACTICE B86049 74.6% WESTGATE SURGERY B86029 72.9% FOUNDRY LANE SURGERY B86106 71.4% OAKWOOD SURGERY B86654 70.7% **NEWTON SURGERY B86666** 70.2% **BRAMHAM MEDICAL CENTRE B86673** 66.4% OAKWOOD LANE MEDICAL PRACTICE B86022 63.2% RUTLAND LODGE MEDICAL CENTRE B86019 62.0% NEW MEDICAL CENTRE B86033 61.3% THE NORTH LEEDS MEDICAL PRACTICE B86013 59.5% MEANWOOD HEALTH CENTRE B86059 58.9% THE STREET LANE PRACTICE B86066 58.4% ST MARTINS PRACTICE B86100 58.4% ALLERTON MEDICAL CENTRE B86039 50.0% SHADWELL MEDICAL CENTRE B86056 41.9% WESTFIELD MEDICAL CENTRE B86031 41.0% SPA SURGERY B86034 39.6% WETHERBY SURGERY B86625 38.9% ONE MEDICARE LLP-THE LIGHT Y02002 38.0% ALWOODLEY MEDICAL CENTRE B86008 30.9% CHAPELTOWN FAMILY SURGERY B86108 29.4% THE AVENUE SURGERY B86023 25.0% ONE MEDICARE LLP B86651 MOORCROFT SURGERY B86107



- achievement 8 care processes: in practices who provided data via the NDA, between 25.0% and 79.8% of patients received all 8 care processes
- at least 4,290 people did not receive the eight care processes

#### People with diabetes who met all 3 treatment targets by CCG, 2015/16



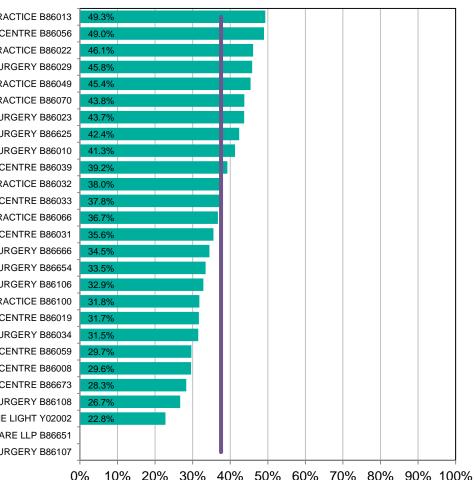
 37.5% of people with diabetes (of practices who participated in the audit) met the three treatment targets in NHS Leeds North CCG, compared to 39.0% in England

#### People with diabetes who met all 3 treatment targets by GP practice, 2015/16

GP practice

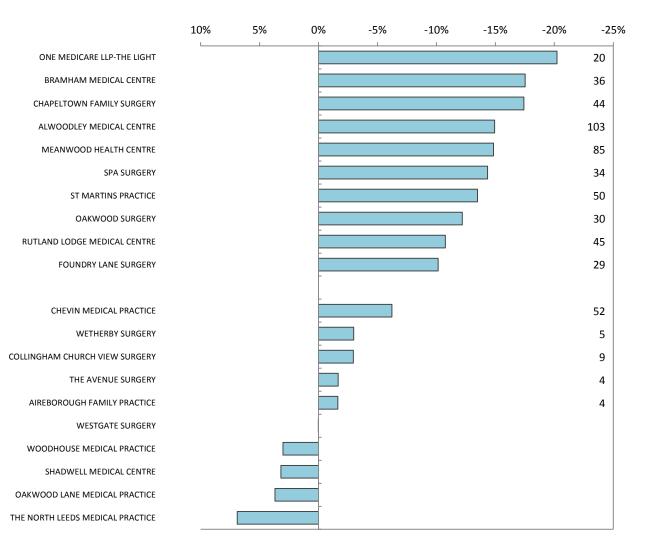
Average of practices in the CCG who participated in the audit

THE NORTH LEEDS MEDICAL PRACTICE B86013 49.3% SHADWELL MEDICAL CENTRE B86056 49.0% OAKWOOD LANE MEDICAL PRACTICE B86022 46.1% WESTGATE SURGERY B86029 45.8% WOODHOUSE MEDICAL PRACTICE B86049 45.4% AIREBOROUGH FAMILY PRACTICE B86070 43.8% THE AVENUE SURGERY B86023 43.7% WETHERBY SURGERY B86625 42.4% COLLINGHAM CHURCH VIEW SURGERY B86010 41.3% ALLERTON MEDICAL CENTRE B86039 39.2% CHEVIN MEDICAL PRACTICE B86032 38.0% NEW MEDICAL CENTRE B86033 37.8% THE STREET LANE PRACTICE B86066 36.7% WESTFIELD MEDICAL CENTRE B86031 35.6% **NEWTON SURGERY B86666** 34.5% OAKWOOD SURGERY B86654 33.5% FOUNDRY LANE SURGERY B86106 32.9% ST MARTINS PRACTICE B86100 31.8% RUTLAND LODGE MEDICAL CENTRE B86019 31.7% SPA SURGERY B86034 31.5% MEANWOOD HEALTH CENTRE B86059 29.7% ALWOODLEY MEDICAL CENTRE B86008 29.6% **BRAMHAM MEDICAL CENTRE B86673** 28.3% CHAPELTOWN FAMILY SURGERY B86108 26.7% ONE MEDICARE LLP-THE LIGHT Y02002 22.8% ONE MEDICARE LLP B86651 MOORCROFT SURGERY B86107



- achievement 3 treatment targets: in practices who provided data via the NDA, between 22.8% and 49.3% of patients achieved all 3 treatment targets
- at least 5,816 people did not meet the three treatment targets

#### People with diabetes who met all 3 treatment targets by GP practice, 2015/16 - opportunities compared to GP cluster



 using the GP cluster method of calculating potential gains, if each practice was to achieve as well as the upper quartile of its national cluster, then an additional 708 people would be treated

Details of this methodology are available on slide 9. Click <u>here to view them.</u>

### Kidney

### Management of chronic kidney disease

Chronic Kidney Disease can progress to kidney failure and it substantially increases the risk of heart attack and stroke.

Late diagnosis of CKD is common. Around a third of people with CKD are undiagnosed. More opportunistic testing and improved uptake of the NHS Health Check will increase detection rates.

Chronic Kidney Disease (CKD) is common.

It is one of the commonest co-morbidities and affects a third of people over 75. In 2010 it was estimated to cost the NHS around £1.5bn. Average length of stay in hospital tends to be longer and outcomes are considerably worse: approximately 7,000 excess strokes and 12,000 excess heart attacks occur each year in people with CKD compared to those without.

Individuals with CKD are also at much higher risk of developing acute kidney injury when they have an intercurrent illness such as pneumonia

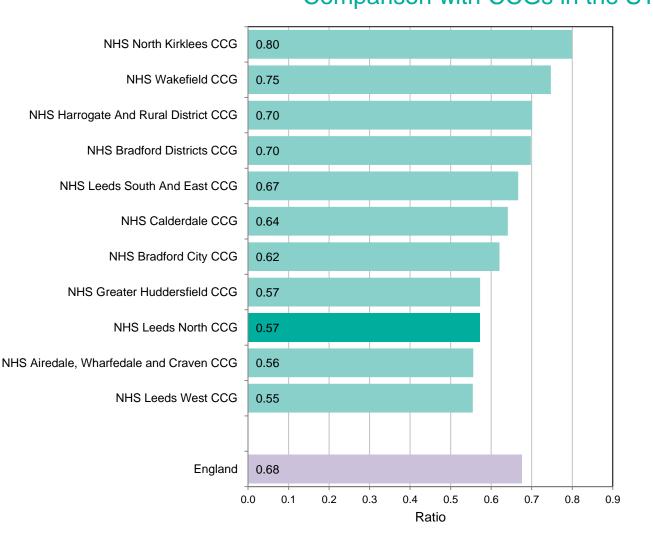
Evidence based guidance from NICE highlights CVD risk reduction, good blood pressure control and management of proteinuria as essential steps to reduce the risk of cardiovascular events and progression to kidney failure. Despite this there is often significant variation between practices in achievement and exception reporting. What questions should we ask in our CCG?

- 1. for each indicator how wide is the variation in achievement and exception reporting?
- 2. how many people would benefit if all practices performed as well as the best?
- 3. how can we support practices who are average and below average to perform as well as the best in:
  - detection of CKD
  - more systematic delivery of evidence based care

#### What might help

- Support practices to share audit data and systematically identify gaps and opportunities for improved detection and management of CKD.
- Promote uptake of and follow up from the NHS Health Check to aid detection and management of CKD
- Offer local training and education in the detection and management of CKD

### Chronic kidney disease (CKD) observed prevalence (2015/16) compared with expected prevalence (2011) by CCG Comparison with CCGs in the STP

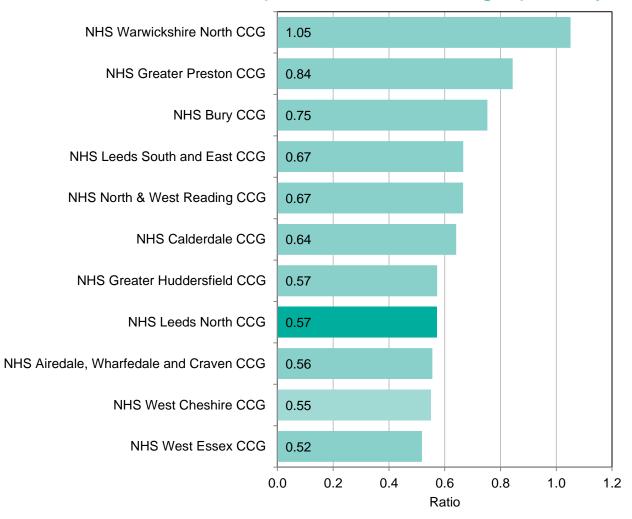


- the ratio of those diagnosed with chronic kidney disease versus those expected to have chronic kidney disease is 0.57. This compares to 0.68 for England
- this suggests that 57% of people with chronic kidney disease have been diagnosed

Note: This slide compares the prevalence of CKD recorded in QOF in 2015/16 to the expected prevalence of CKD produced by the University of Southampton in 2011. A small number of CCGs have a ratio greater than 1. It is unlikely that all people with CKD will be diagnosed in any CCG and therefore a ratio greater than 1 suggests that the figures are underestimating the true CKD prevalence in the area. These ratios should be taken as an indication of the comparative scale of undiagnosed CKD rather than absolute figures.

### Chronic kidney disease (CKD) observed prevalence (2015/16) compared with expected prevalence (2011) by CCG

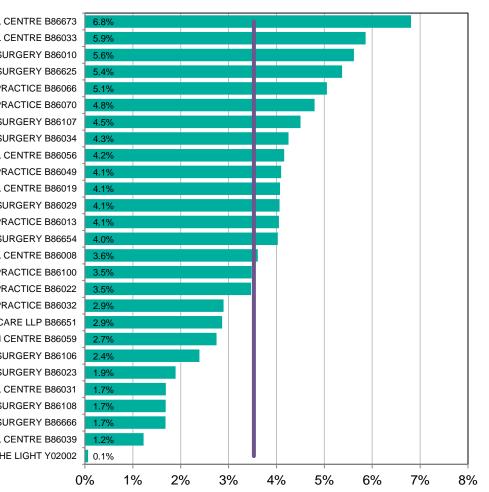
Comparison with demographically similar CCGs



### CKD prevalence by GP practice, 2015/16

GP practice CCG

**BRAMHAM MEDICAL CENTRE B86673 NEW MEDICAL CENTRE B86033** COLLINGHAM CHURCH VIEW SURGERY B86010 WETHERBY SURGERY B86625 THE STREET LANE PRACTICE B86066 AIREBOROUGH FAMILY PRACTICE B86070 MOORCROFT SURGERY B86107 SPA SURGERY B86034 SHADWELL MEDICAL CENTRE B86056 WOODHOUSE MEDICAL PRACTICE B86049 RUTLAND LODGE MEDICAL CENTRE B86019 WESTGATE SURGERY B86029 THE NORTH LEEDS MEDICAL PRACTICE B86013 OAKWOOD SURGERY B86654 ALWOODLEY MEDICAL CENTRE B86008 ST MARTINS PRACTICE B86100 OAKWOOD LANE MEDICAL PRACTICE B86022 CHEVIN MEDICAL PRACTICE B86032 ONE MEDICARE LLP B86651 MEANWOOD HEALTH CENTRE B86059 FOUNDRY LANE SURGERY B86106 THE AVENUE SURGERY B86023 WESTFIELD MEDICAL CENTRE B86031 CHAPELTOWN FAMILY SURGERY B86108 **NEWTON SURGERY B86666** ALLERTON MEDICAL CENTRE B86039 ONE MEDICARE LLP-THE LIGHT Y02002

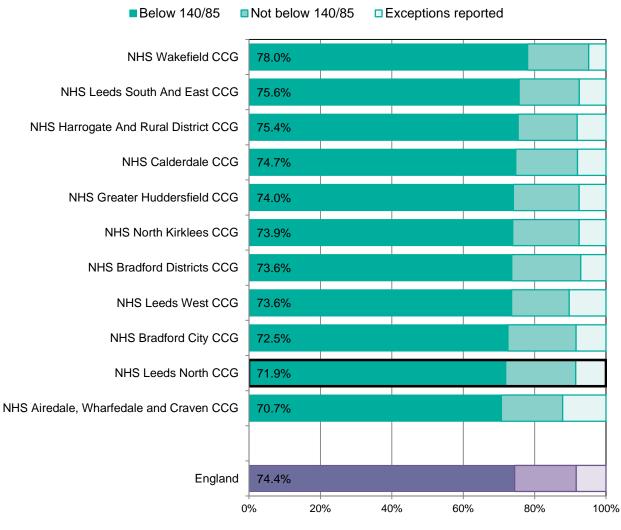


- it is estimated that there are 4,444 people with undiagnosed chronic kidney disease in NHS Leeds North CCG
- GP practice range of observed CKD: 0.1% to 6.8%

Note: CCG estimates for the estimated number of people with CKD are based on applying a proportion from a resident based population estimate to a GP registered population. The characteristics of registered and resident populations may vary in some CCGs, and local interpretation is required.

# Percentage of patients on the CKD register whose last blood pressure reading (measured in the preceding 12 months) is 140/85 mmHg or less by CCG, 2014/15

### Comparison with CCGs in the STP

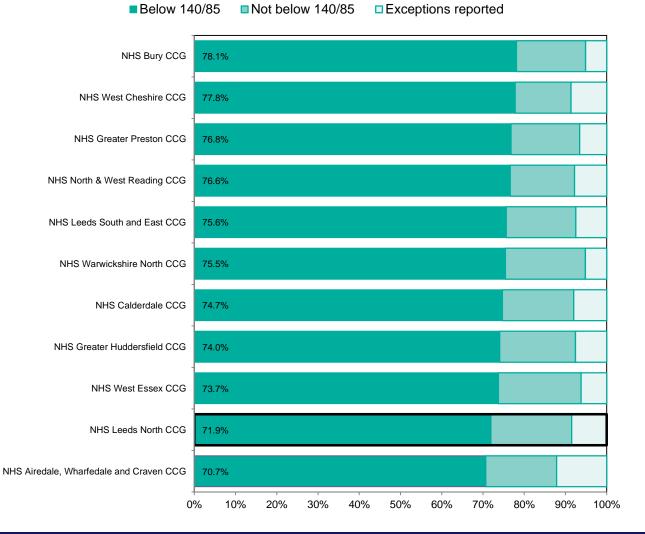


- 5,967 people with CKD (diagnosed\*) in NHS Leeds North CCG
- 4,291 (71.9%) people whose blood pressure is <= 140 /85</li>
- 507 (8.5%) people who are exceptions
- 1,169 (19.6%) additional people whose blood pressure is not <= 140 / 85

\*Using the QOF clinical indicator CKD002 denominator plus exceptions. Note: as the CKD002 indicator was removed from the QOF in 15/16 this is historic data taken from the 2014/15 QOF.

# Percentage of patients on the CKD register whose last blood pressure reading (measured in the preceding 12 months) is 140/85 mmHg or less by CCG, 2014/15

#### Comparison with demographically similar CCGs



# Percentage of patients on the CKD register whose last blood pressure reading (measured in the preceding 12 months) is not 140/85 mmHg or less by GP practice, 2014/15

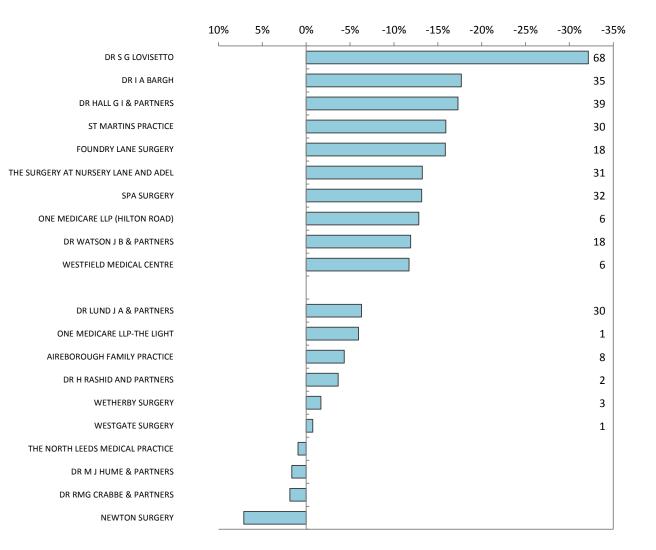
Exceptions reported

DR S G LOVISETTO B86673 108 DR I A BARGH B86056 71 DR HALL G I & PARTNERS B86107 81 THE SURGERY AT NURSERY LANE AND ADEL B86008 79 DR R HALL & PARTNERS B86033 144 ST MARTINS PRACTICE B86100 59 SPA SURGERY B86034 78 FOUNDRY LANE SURGERY B86106 35 RUTLAND LODGE MEDICAL CENTRE B86019 100 THE STREET LANE PRACTICE B86066 165 DR NEWBOUND A D & PARTNERS B86059 92 ONE MEDICARE LLP (HILTON ROAD) B86651 14 DR WATSON J B & PARTNERS B86654 43 DR LUND J A & PARTNERS B86032 132 DR EDRIDGE & PARTNER B86023 19 WESTFIELD MEDICAL CENTRE B86031 14 OAKWOOD LANE MEDICAL PRACTICE B86022 86 DR M T FEENEY & PARTNER B86108 17 AIREBOROUGH FAMILY PRACTICE B86070 39 2 ONE MEDICARE LLP-THE LIGHT Y02002 DR H RASHID AND PARTNERS B86039 12 WETHERBY SURGERY B86625 34 DR RMG CRABBE & PARTNERS B86010 74 THE NORTH LEEDS MEDICAL PRACTICE B86013 86 WESTGATE SURGERY B86029 38 DR M J HUME & PARTNERS B86049 49 **NEWTON SURGERY B86666** 5 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Not below 140/85

- in total, including exceptions, there are 1,676 people whose blood pressure is not <= 140 / 85</li>
- GP practice range: 8.6% to 50.7%

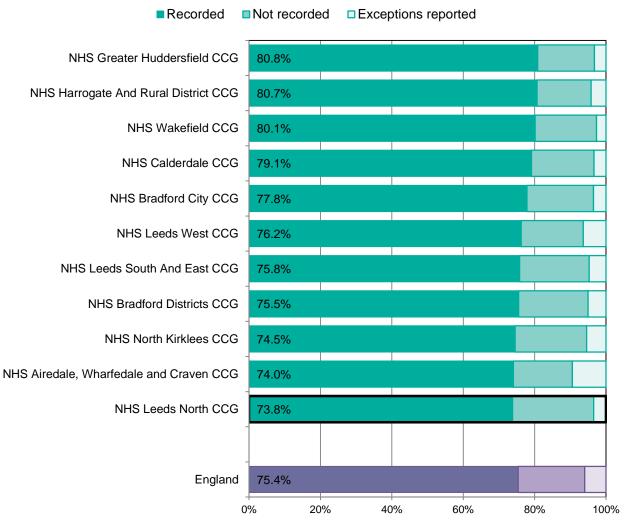
### Percentage of patients on the CKD register whose last blood pressure reading (measured in the preceding 12 months) is not 140/85 mmHg or less by GP practice, 2014/15 – opportunities compared to GP cluster



 using the GP cluster method of calculating potential gains, if each practice was to achieve as well as the upper quartile of its national cluster, then an additional 526 people would be treated

Details of this methodology are available on slide 9. Click <u>here to view them.</u> Percentage of patients on the CKD register whose notes have a record of a urine albumin: creatinine ratio test in the preceding 12 months by CCG, 2014/15

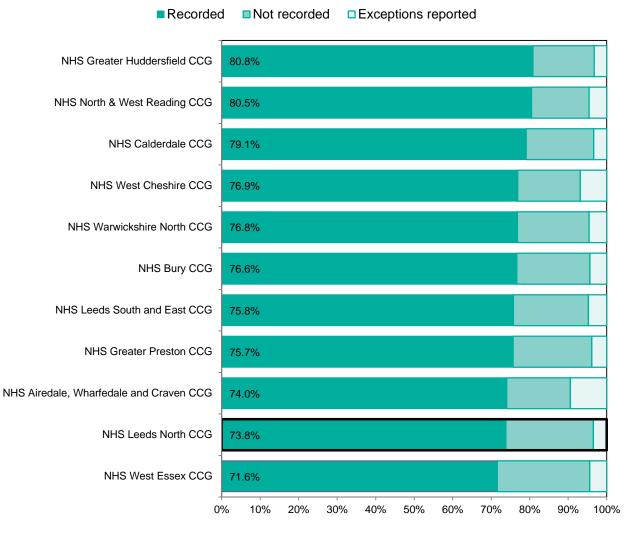
#### Comparison with CCGs in the STP



- 5,967 people with CKD (diagnosed\*) in NHS Leeds North CCG
- 4,404 (73.8%) people who have a record of urine albumin:creatinine ratio test
- 206 (3.5%) people who are exceptions
- 1,357 (22.7%) additional people who have no record of urine albumin:creatinine ratio test

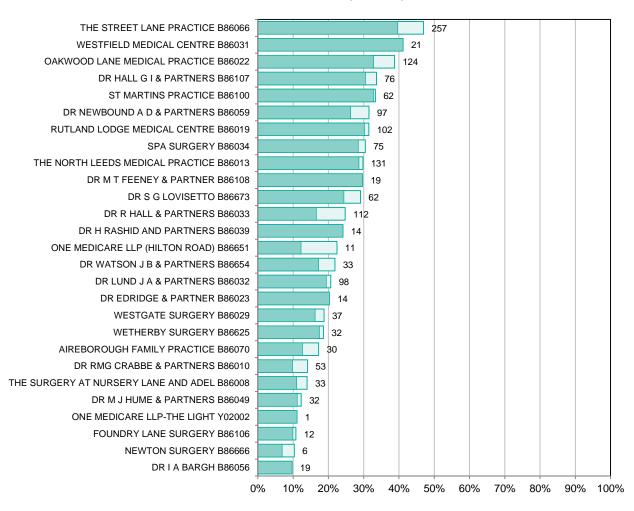
\*Using the QOF clinical indicator CKD004 denominator plus exceptions. Note: as the CKD004 indicator was removed from the QOF in 15/16 this is historic data taken from the 2014/15 QOF. Percentage of patients on the CKD register whose notes have a record of a urine albumin: creatinine ratio test in the preceding 12 months by CCG, 2014/15

#### Comparison with demographically similar CCGs



## Percentage of patients on the CKD register whose notes do not have a record of a urine albumin: creatinine ratio test in the preceding 12 months by GP practice, 2014/15

Not recorded Exceptions reported



- in total, including exceptions, there are 1,563 people who have no record of urine albumin:creatinine ratio test
- GP practice range: 9.7% to 47.0%

### Heart

### Management of Heart Disease

Premature death and disability in people with CHD can be reduced significantly by systematic evidence based management in primary care

Coronary Heart Disease is one of the principal causes of premature death and disability. The key elements of management for an individual who has already had a heart attack or angina are symptom control and secondary prevention of further cardiovascular events and premature mortality. There is robust evidence to support the use of anti-platelet treatment, statins, beta-blockers and angiotensin converting enzyme inhibitors or angiotensin receptor blockers. There is also robust evidence to support good control of blood pressure. Each of these interventions is incentivised in QOF but variation in achievement and exception reporting at practice level shows that there is often considerable potential for improving management and outcomes.

Heart failure is a common and an important complication of coronary heart disease and other conditions. Appropriate treatment including up-titration of ace inhibitors and beta blockers in heart failure due to LVSD can significantly improve symptom control and quality of life, and improve outcomes for patients. Despite this, around a quarter of people with heart failure are undetected and untreated. And amongst those who are diagnosed, there is significant variation in the quality of care.

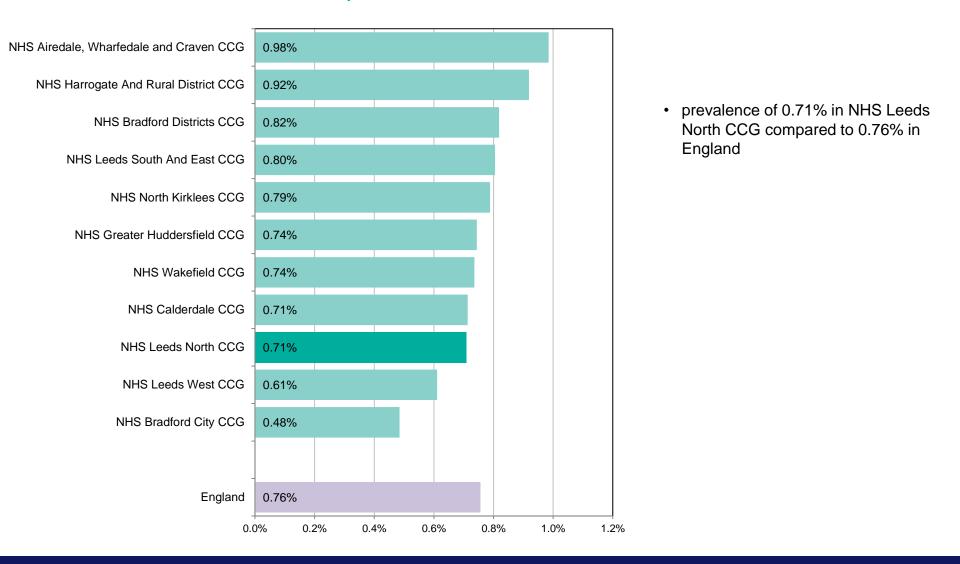
#### What questions should we ask in our CCG?

- 1. for each indicator how wide is the variation in achievement and exception reporting?
- 2. how many people would benefit if all practices performed as well as the best?
- how can we support practices who are average and below average to perform as well as the best in:
  - more systematic delivery of evidence based care for people with CHD
  - improved detection and management of heart failure

#### What might help

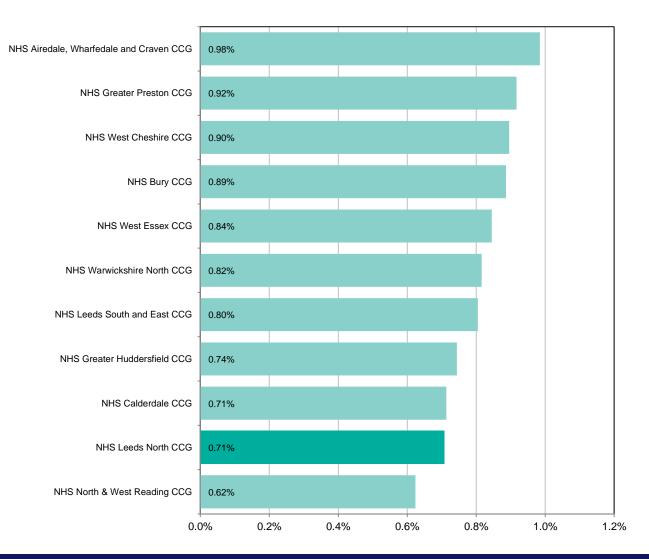
- roll out of GRASP-Heart Failure audit tool that identifies people with heart failure who are undiagnosed or under treated
- education for health professionals to promote evidence based management of CHD and high quality measurement of blood pressure
- 3. ensure access to rapid access diagnostic clinics and specialist support for management of angina and heart failure
- 4. ensure access to cardiac rehab for individuals with CHD and heart failure

Heart failure prevalence by CCG Comparison with CCGs in the STP



#### Heart failure prevalence by CCG

### Comparison with demographically similar CCGs



#### Heart failure prevalence by GP practice

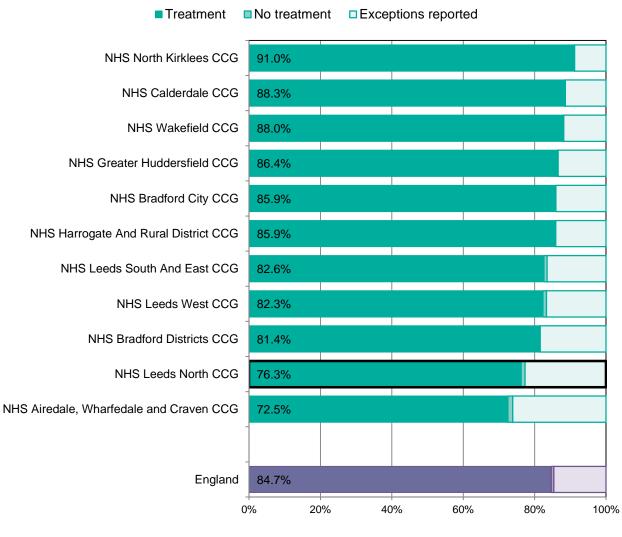
2.0%

GP practice ——CCG AIREBOROUGH FAMILY PRACTICE B86070 1.8% THE STREET LANE PRACTICE B86066 1.1% OAKWOOD LANE MEDICAL PRACTICE B86022 1.0% CHEVIN MEDICAL PRACTICE B86032 1.0% COLLINGHAM CHURCH VIEW SURGERY B86010 0.9% WESTGATE SURGERY B86029 0.9% **BRAMHAM MEDICAL CENTRE B86673** 0.9% THE AVENUE SURGERY B86023 0.8% MEANWOOD HEALTH CENTRE B86059 0.8% SPA SURGERY B86034 0.8% ALLERTON MEDICAL CENTRE B86039 0.8% RUTLAND LODGE MEDICAL CENTRE B86019 0.8% WETHERBY SURGERY B86625 0.7% WOODHOUSE MEDICAL PRACTICE B86049 0.7% OAKWOOD SURGERY B86654 0.7% ST MARTINS PRACTICE B86100 0.7% ALWOODLEY MEDICAL CENTRE B86008 0.6% MOORCROFT SURGERY B86107 0.5% **NEWTON SURGERY B86666** 0.5% **NEW MEDICAL CENTRE B86033** 0.5% CHAPELTOWN FAMILY SURGERY B86108 0.5% THE NORTH LEEDS MEDICAL PRACTICE B86013 0.5% FOUNDRY LANE SURGERY B86106 0.5% WESTFIELD MEDICAL CENTRE B86031 0.5% SHADWELL MEDICAL CENTRE B86056 0.3% ONE MEDICARE LLP B86651 0.3% ONE MEDICARE LLP-THE LIGHT Y02002 0.0% 0.2% 0.4% 0.6% 0.8% 1.0% 1.2% 1.4% 1.6% 1.8%

- 1,503 people with diagnosed heart failure in NHS Leeds North CCG
- GP practice range: 0.0% to 1.8%

Percentage of patients with heart failure due to left ventricular systolic dysfunction (LVSD) who are treated with ACE-I/ARB by CCG

#### Comparison with CCGs in the STP



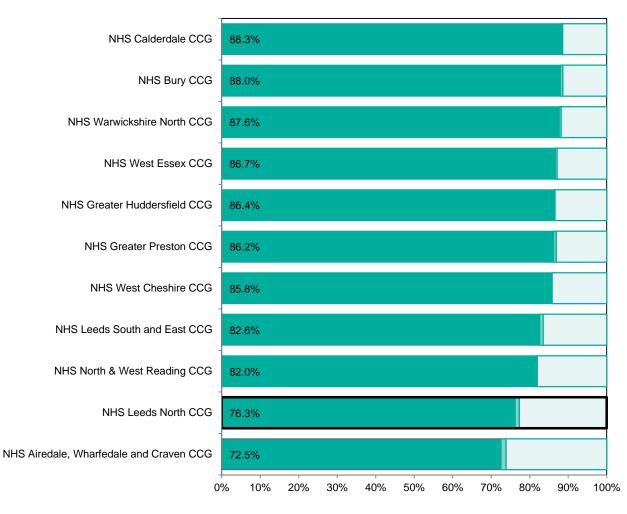
- 379 people with heart failure\* with LVSD in NHS Leeds North CCG
- 289 (76.3%) people treated with ACE-I or ARB
- 86 (22.7%) people who are exceptions
- 4 (1.1%) additional people who are not treated with ACE-I or ARB

\*Using the QOF clinical indicator HF003 denominator plus exceptions

# Percentage of patients with heart failure due to left ventricular systolic dysfunction (LVSD) who are treated with ACE-I/ARB by CCG

#### Comparison with demographically similar CCGs

Treatment No treatment Exceptions reported



## Percentage of patients with heart failure due to left ventricular systolic dysfunction (LVSD) who are not treated with ACE-I/ARB by GP practice

2

70%

80%

90%

100%

60%

No treatment Exceptions reported

5

6

19

10

10

4

2

3

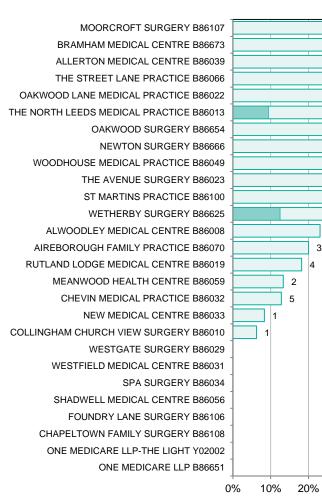
2

30%

40%

50%

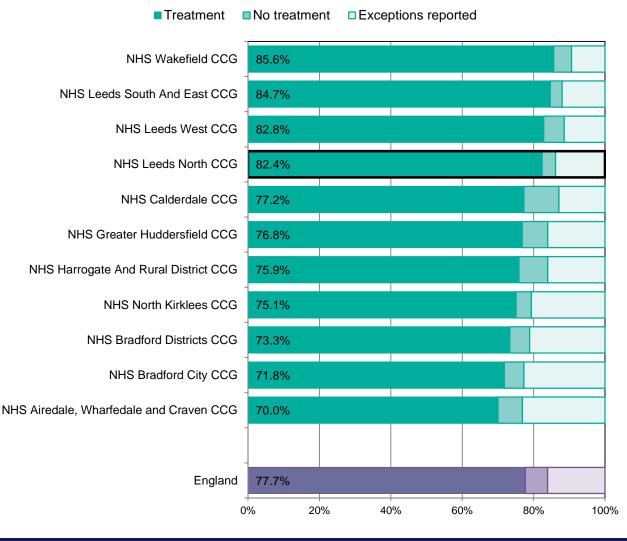
3



- in total, including exceptions, there are 90 people who are not treated with ACE-I or ARB
- GP practice range: 0.0% to 66.7%

Percentage of patients with heart failure due to left ventricular systolic dysfunction (LVSD) who are treated with ACE-I/ARB and BB by CCG

### Comparison with CCGs in the STP

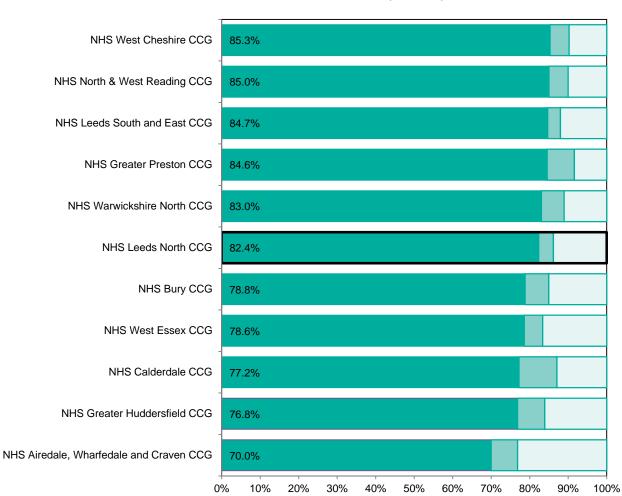


- 289 people with heart failure\* with LVSD treated with ACE-I/ARB in NHS Leeds North CCG
- 238 (82.4%) people treated with ACE-I/ARB and BB
- 40 (13.8%) people who are exceptions
- 11 (3.8%) additional people who are not treated with ACE-I/ARB and BB

<sup>\*</sup>Using the QOF clinical indicator HF004 denominator plus exceptions

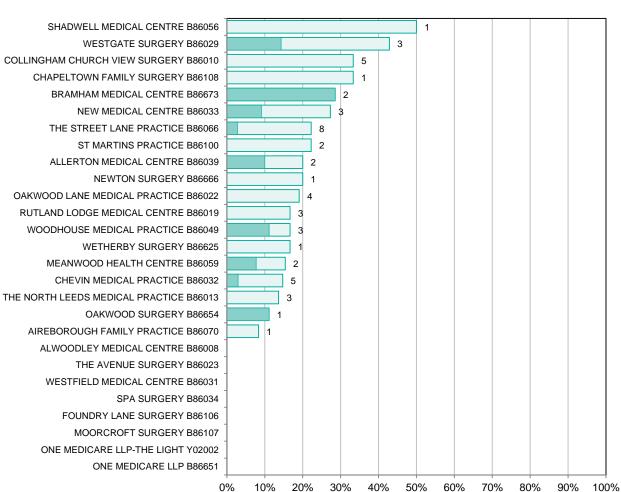
## Percentage of patients with heart failure due to left ventricular systolic dysfunction (LVSD) who are treated with ACE-I/ARB and BB by CCG

#### Comparison with demographically similar CCGs



■ Treatment ■ No treatment ■ Exceptions reported

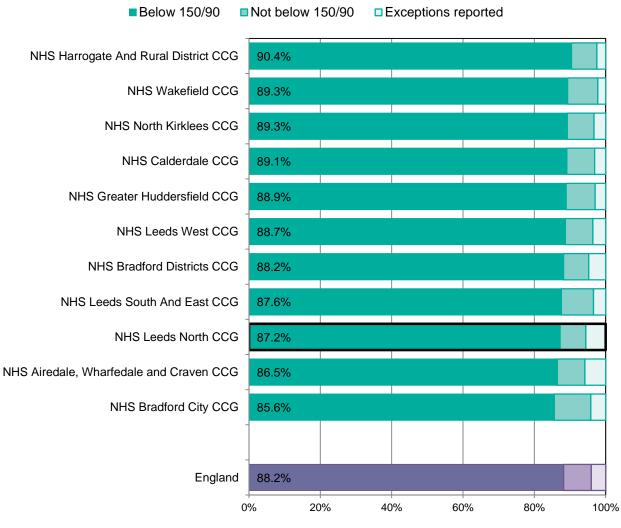
## Percentage of patients with heart failure due to left ventricular systolic dysfunction (LVSD) who are not treated with ACE-I/ARB and BB by GP practice



No treatment Exceptions reported

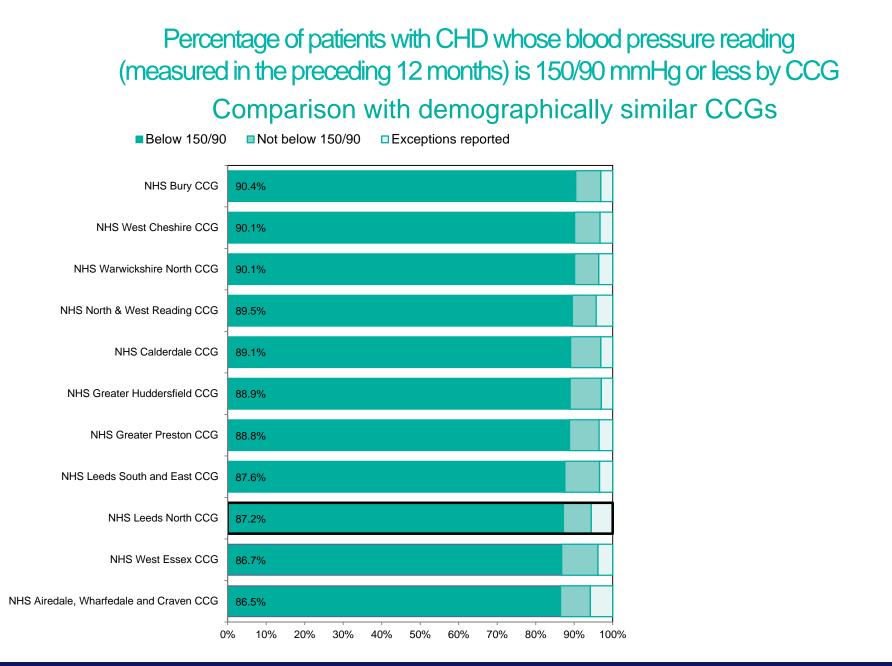
- in total, including exceptions, there are 51 people who are not treated with ACE-I or ARB
- GP practice range: 0.0% to 50.0%

Percentage of patients with CHD whose blood pressure reading (measured in the preceding 12 months) is 150/90 mmHg or less by CCG Comparison with CCGs in the STP



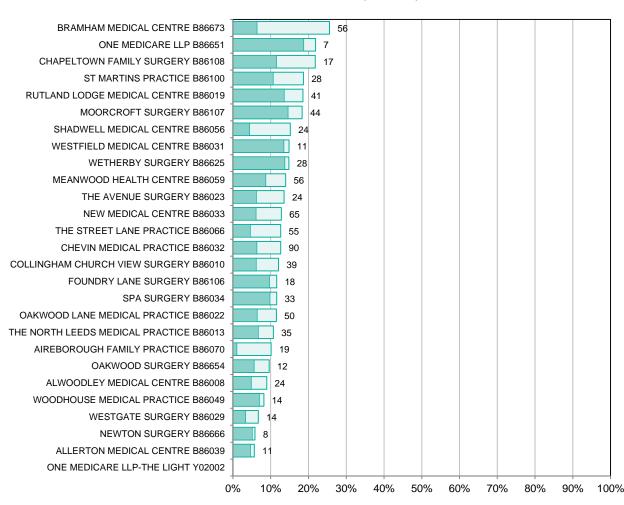
- 6,432 people with coronary heart disease\* in NHS Leeds North CCG
- 5,609 (87.2%) people whose blood pressure <= 150 / 90</li>
- 358 (5.6%) people who are exceptions
- 465 (7.2%) additional people whose blood pressure is not <= 150 / 90</li>

<sup>\*</sup>Using the QOF clinical indicator CHD002 denominator plus exceptions



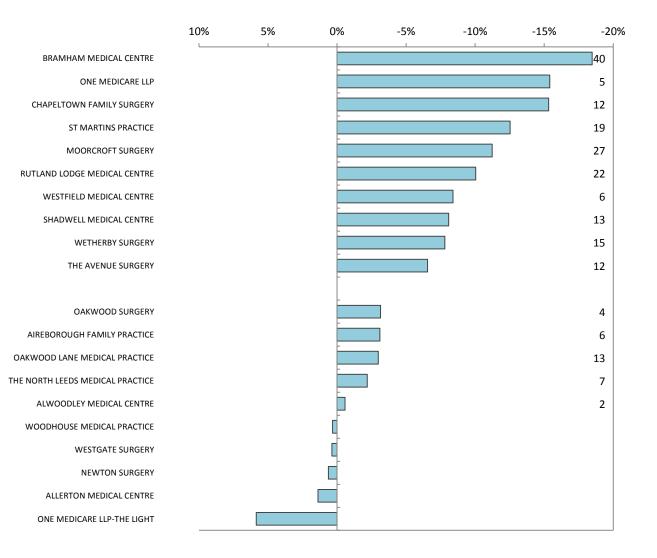
# Percentage of patients with CHD whose blood pressure reading (measured in the preceding 12 months) is not 150/90 mmHg or less by GP practice

Not below 150/90 Exceptions reported



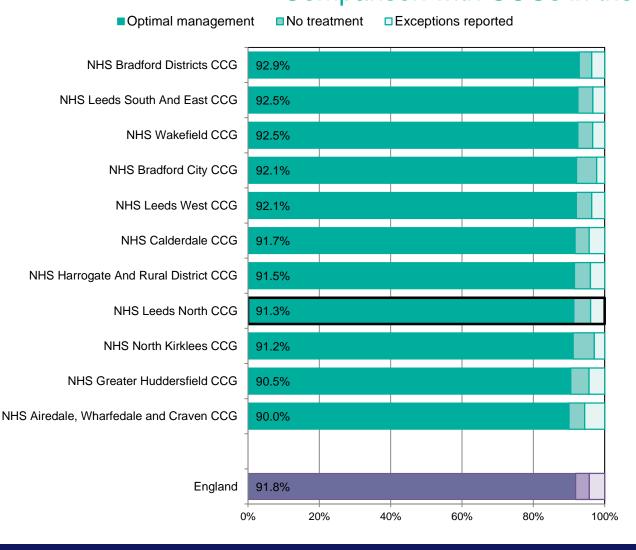
- in total, including exceptions, there are 823 people whose blood pressure is not <= 150 / 90</li>
- GP practice range: 0.0% to 25.6%

Percentage of patients with CHD whose blood pressure reading (measured in the preceding 12 months) is not 150/90 mmHg or less by GP practice – opportunities compared to GP cluster



 using the GP cluster method of calculating potential gains, if each practice was to achieve as well as the upper quartile of its national cluster, then an additional 326 people would be treated

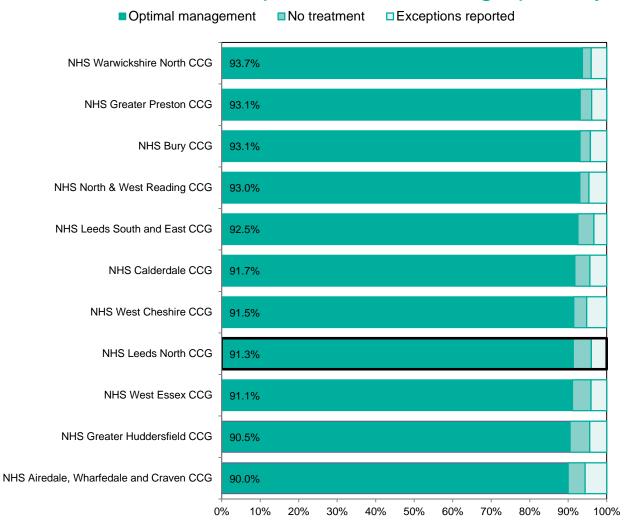
Details of this methodology are available on slide 9. Click <u>here to view them.</u> Percentage of patients with CHD with a record in the preceding 12 months that aspirin, an alternative anti-platelet therapy, or an anti-coagulant is being taken by CCG Comparison with CCGs in the STP



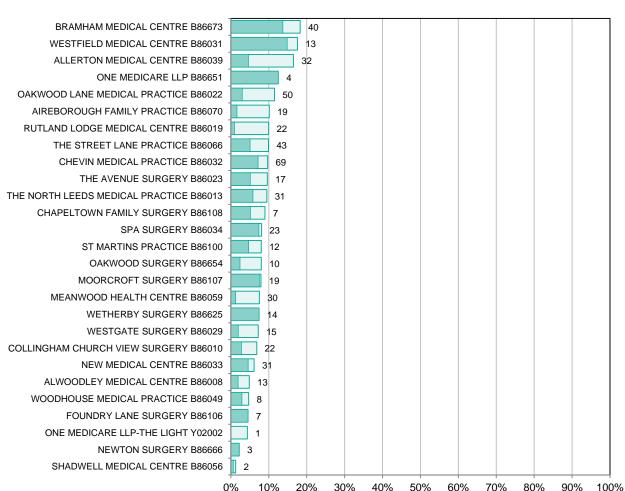
- 6,432 people with coronary heart disease\* in NHS Leeds North CCG
- 5,875 (91.3%) people who are taking aspirin, an alternative anti-platelet therapy, or an anti-coagulant
- 255 (4%) people who are exceptions
- 302 (4.7%) additional people who are not taking aspirin, an alternative antiplatelet therapy, or an anti-coagulant

\*Using the QOF clinical indicator CHD005 denominator plus exceptions

Percentage of patients with CHD with a record in the preceding 12 months that aspirin, an alternative anti-platelet therapy, or an anti-coagulant is being taken by CCG Comparison with demographically similar CCGs



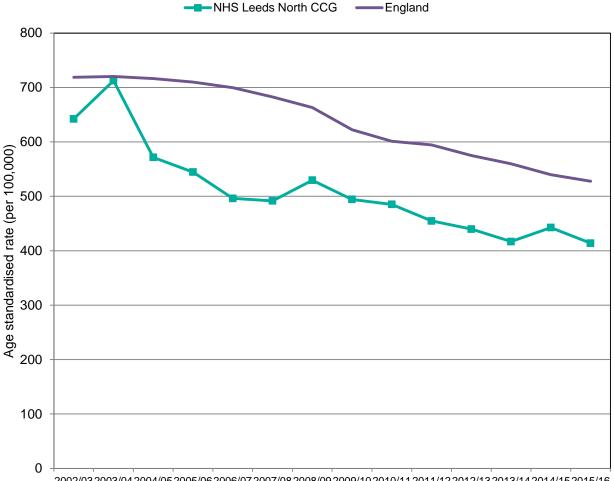
# Percentage of patients with CHD without a record in the preceding 12 months that aspirin, an alternative anti-platelet therapy, or an anti-coagulant is being taken by GP practice



- in total, including exceptions, there are 557 people are not taking aspirin, an alternative anti-platelet therapy, or an anti-coagulant
- GP practice range: 1.3% to 18.3%

# Some data on outcomes for people with cardiovascular disease

## Hospital admissions for coronary heart disease for all ages 2002/03 – 2015/16

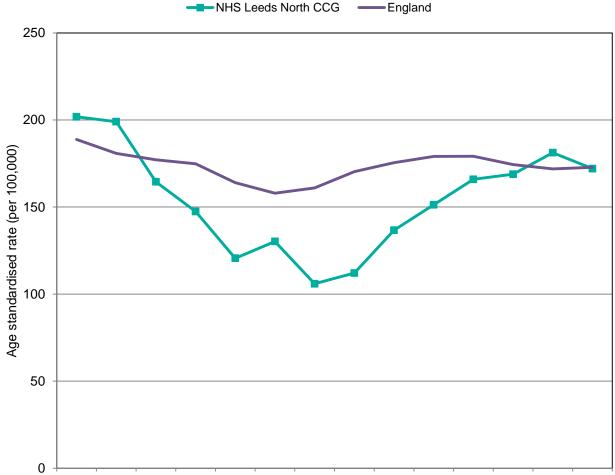


in NHS Leeds North CCG, the hospital admission rate for coronary heart disease in 2015/16 was 413.9 (818) compared to 527.9 for England

2002/03 2003/04 2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2010/11 2011/12 2012/13 2013/14 2014/15 2015/16

Source: Hospital Episode Statistics (HES), 2002/03 - 2015/16, Copyright © 2017, Re-used with the permission of NHS Digital. All rights reserved

### Hospital admissions for stroke for all ages 2002/03 - 2015/16

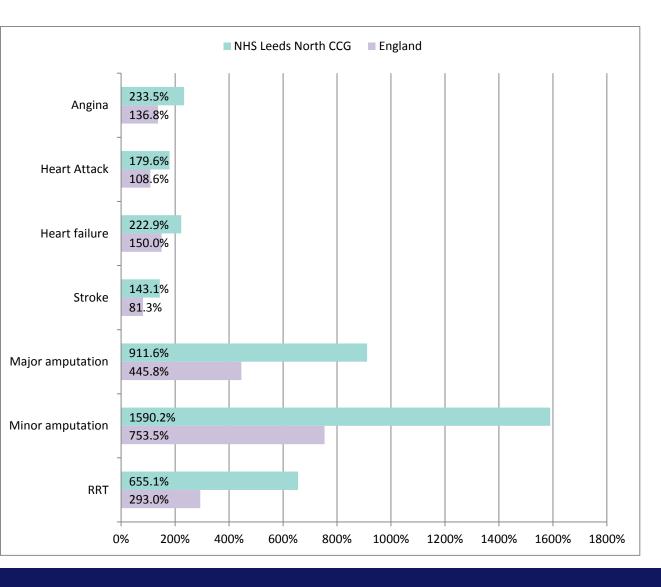


 in NHS Leeds North CCG, the hospital admission rate for stroke in 2015/16 was 172 (344) compared to 172.8 for England

2002/032003/042004/052005/062006/072007/082008/092009/102010/112011/122012/132013/142014/152015/16

Source: Hospital Episode Statistics (HES), 2002/03 - 2015/16, Copyright © 2017, Re-used with the permission of NHS Digital. All rights reserved

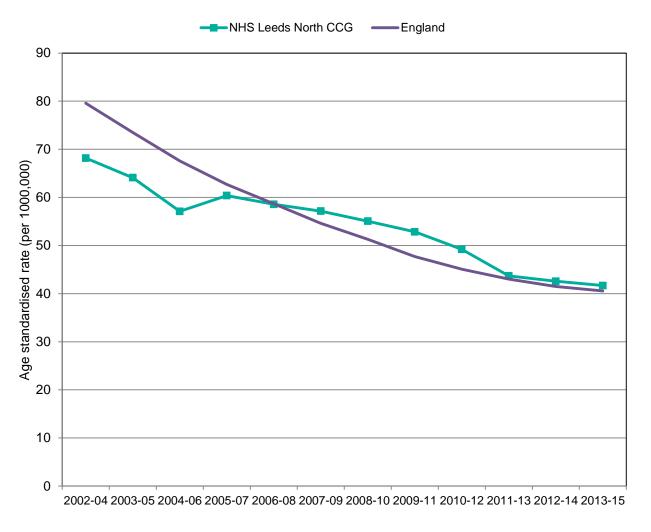
### Additional risk of complications for people with diabetes, three year follow up, 2013/14



 The risk of a stroke was 143.1% higher and the risk of a heart attack was 179.6% higher compared to people without diabetes. The risk of a major amputation was 911.6% higher.

Note: This slide uses data from the National Diabetes Audit (NDA)

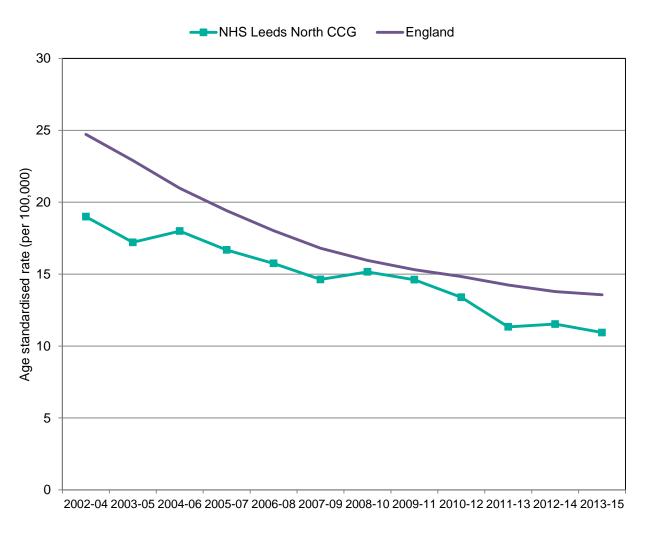
#### Deaths from coronary heart disease, under 75s



 in NHS Leeds North CCG, the early mortality rate for coronary heart disease in 2013-15 was 41.7, compared to 40.6 for England

Source: Office for National Statistics (ONS) mortality data 2002 - 2015

#### Deaths from stroke, under 75s



 in NHS Leeds North CCG, the early mortality rate for stroke in 2013-15 was 10.9, compared to 13.6 for England

Source: Office for National Statistics (ONS) mortality data 2002 - 2015

## Appendix

#### Data sources

- Quality and Outcomes Framework (QOF), 2015/16, Copyright © 2016, re-used with the permission of NHS Digital. All rights
  reserved
- Non-diabetic hyperglycaemia prevalence estimates, NCVIN, PHE: <u>https://www.gov.uk/government/publications/nhs-diabetes-prevention-programme-non-diabetic-hyperglycaemia</u>
- Diabetes prevalence estimates, NCVIN, PHE: <u>https://www.gov.uk/government/publications/diabetes-prevalence-estimates-for-local-populations</u>
- CKD Prevalence model, G.Aitken, University of Southampton , 2014 <u>https://www.gov.uk/government/publications/ckd-prevalence-estimates-for-local-and-regional-populations</u>
- Hypertension prevalence estimates for local CCG populations. Created using data from: QOF hypertension registers 2014/15 and; Undiagnosed hypertension estimates for adults 16 years and older. 2014. Department of Primary Care & Public Health, Imperial College London <a href="https://www.gov.uk/government/publications/hypertension-prevalence-estimates-for-local-populations">https://www.gov.uk/government/publications/hypertension-prevalence-estimates-for-local-populations</a>
- NHS Stop smoking services Copyright © 2014, NHS Digital
- Norberg J, Bäckström S, Jansson J-H, Johansson L. Estimating the prevalence of atrial fibrillation in a general population using validated electronic health data. Clin Epidemiol 2013; 5 475 – 81.
- National Diabetes Audit, 2013/14 and 2015/16, Copyright © 2016, re-used with the permission of NHS Digital. All rights reserved
- Hospital Episode Statistics (HES), 2002/03 2015/16, Copyright © 2017, Re-used with the permission of NHS Digital. All rights reserved
- Office for National Statistics (ONS) mortality data 2002 2015, Copyright © 2017, Re-used with the permission of the Office for National Statistics. All rights reserved

#### About Public Health England

Public Health England exists to protect and improve the nation's health and wellbeing, and reduce health inequalities. We do this through world-class science, knowledge and intelligence, advocacy, partnerships and the delivery of specialist public health services. We are an executive agency of the Department of Health, and are a distinct delivery organisation with operational autonomy to advise and support government, local authorities and the NHS in a professionally independent manner.

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