

# BIRMINGHAM HEALTH PROFILES: NORTH LOCALITY 2019

## Birmingham Constituencies and Wards

-  2018 Wards
-  Constituencies



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## Contents

Introduction .....	3
Demographics.....	4
Life Expectancy .....	5
Causes of early death .....	5
Child Health .....	7
Infant mortality .....	7
Child obesity .....	8
Child educational attainment.....	9
Child protection.....	10
Children in care.....	10
Child mental health .....	11
Working Age Adults .....	12
Smoking.....	12
Alcohol.....	12
Substance misuse.....	14
Learning disability and employment .....	15
Older Adults.....	16
Social isolation.....	16
Pension claimants.....	17
Admissions for falls .....	18
End of life care.....	19
Healthy Environment.....	20
Deprivation.....	20
Life expectancy inequality .....	21
Air quality .....	22
Becoming a food smart city.....	24
Fuel Poverty.....	25
Overcrowding.....	26
A&E Hospital Attendances .....	27
Disease Breakdowns .....	28
Cardiovascular disease (CVD) .....	28
Diabetes.....	33
Cancer .....	35
Respiratory .....	37

## Introduction

This profile is one of a series of reports containing demographics and data relating to the health and wellbeing of the citizens of Birmingham at a local area level.

Birmingham’s health and social care organisations use a locality model to deliver services across the city. Birmingham has 5 localities each made up of 2 constituencies. These are:

- Central: Hall Green and Selly Oak constituencies
- East: Hodge Hill and Yardley constituencies
- North: Erdington and Sutton Coldfield constituencies
- South: Edgbaston and Northfield constituencies
- West: Ladywood and Perry Barr constituencies.

Birmingham Public Health are currently consulting on a draft vision and strategy which is to improve and protect the health and wellbeing of Birmingham’s population by reducing inequalities in health and enabling people to help themselves. These are our draft priorities which are underpinned by addressing health inequalities and an intention to maximise the public health gains from hosting the Commonwealth Games in 2022.

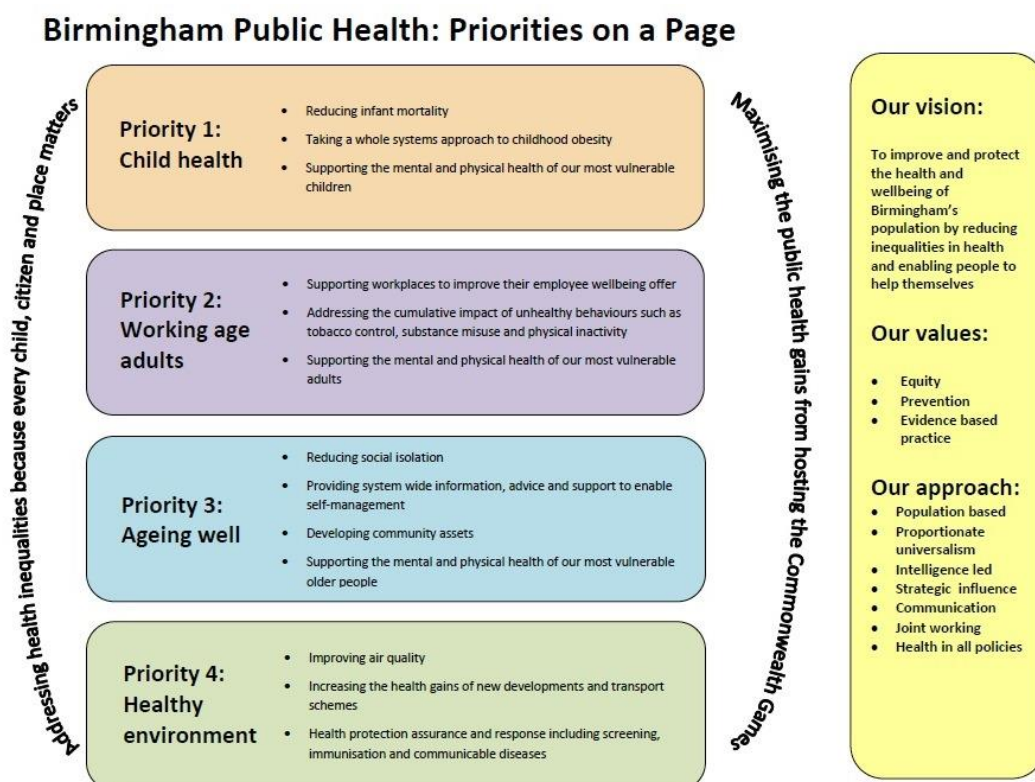


Figure 1 – Draft Birmingham Public Health Priorities 2019

There is a variety of information available on each local area, including demographics and public health priorities. These profiles allows health and care organisations to identify public health issues in their local area and work with Birmingham Public Health to improve local services.

## Demographics

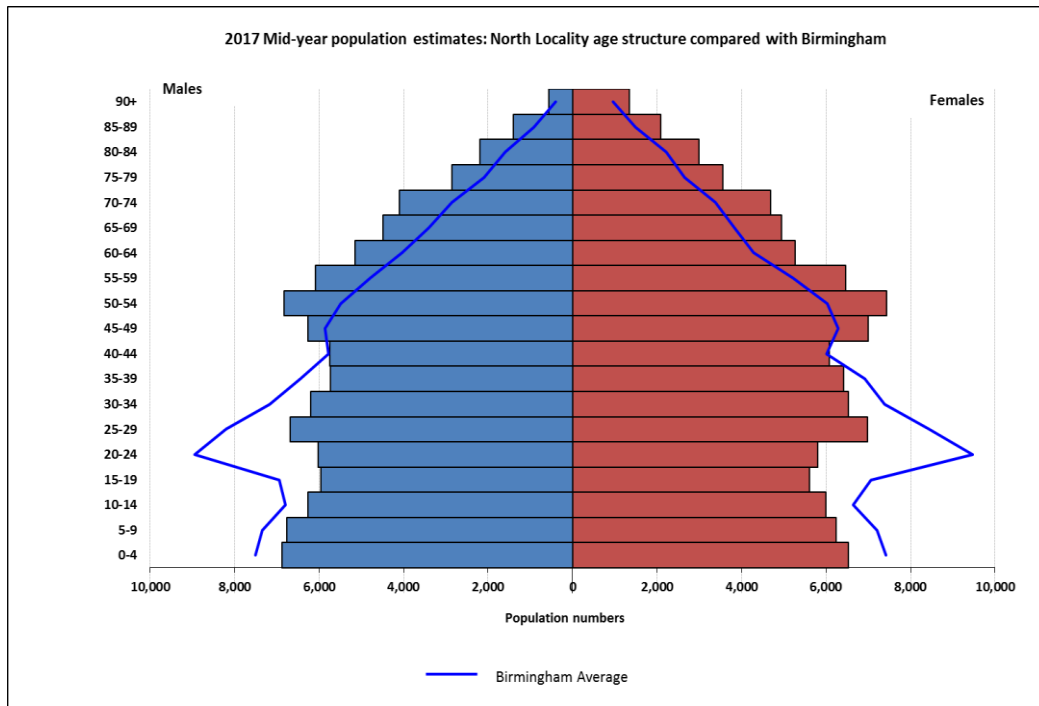


Figure 2 - North locality population pyramid. Source: ONS 2017MYE

It is estimated that there are approximately 198,000 people living in North locality (ONS 2017 mid-year estimates) which is just over 17.5% of the total population of Birmingham. Of these 48.5% are male and 51.5% are female. 56.8% of the locality population are aged under 45 years old. The 2011 Census estimated that 19% were from Black, Asian and Minority Ethnicity groups as opposed to 42% within Birmingham as a whole and 15% nationally.

During 2013 to 2017 Birmingham saw just over 102,000 migrants register with GPs across the city; of these 8% registered at practices based in North locality.

## Life Expectancy

Life expectancy in Birmingham is lower than the national average, for males life expectancy at birth is 77.2 years (England 79.5) and females 81.9 years (England 83.1).

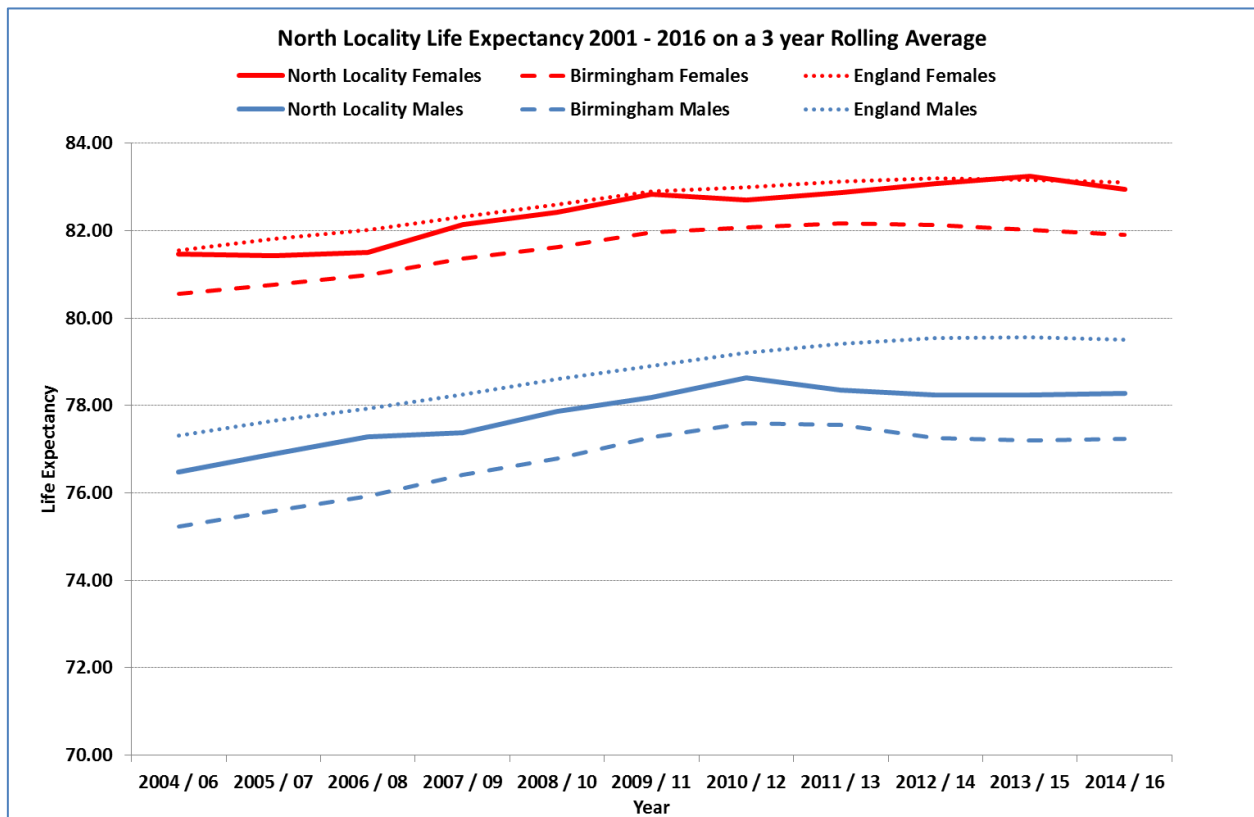


Figure 3 - Life expectancy for North locality compared to Birmingham and England. Source: ONS Deaths

Life expectancy has increased in North locality over the last 10 years however it is lower than the Birmingham and England average for both males and females

### Causes of early death

The major health conditions contributing to premature mortality can be identified by the number of years of life lost due to people dying before the age of 75. The biggest single contributor to excess years of life lost is infant mortality. This is discussed later in this report, the other main causes of early death in Birmingham are coronary heart disease, lung cancer and alcoholic liver disease.

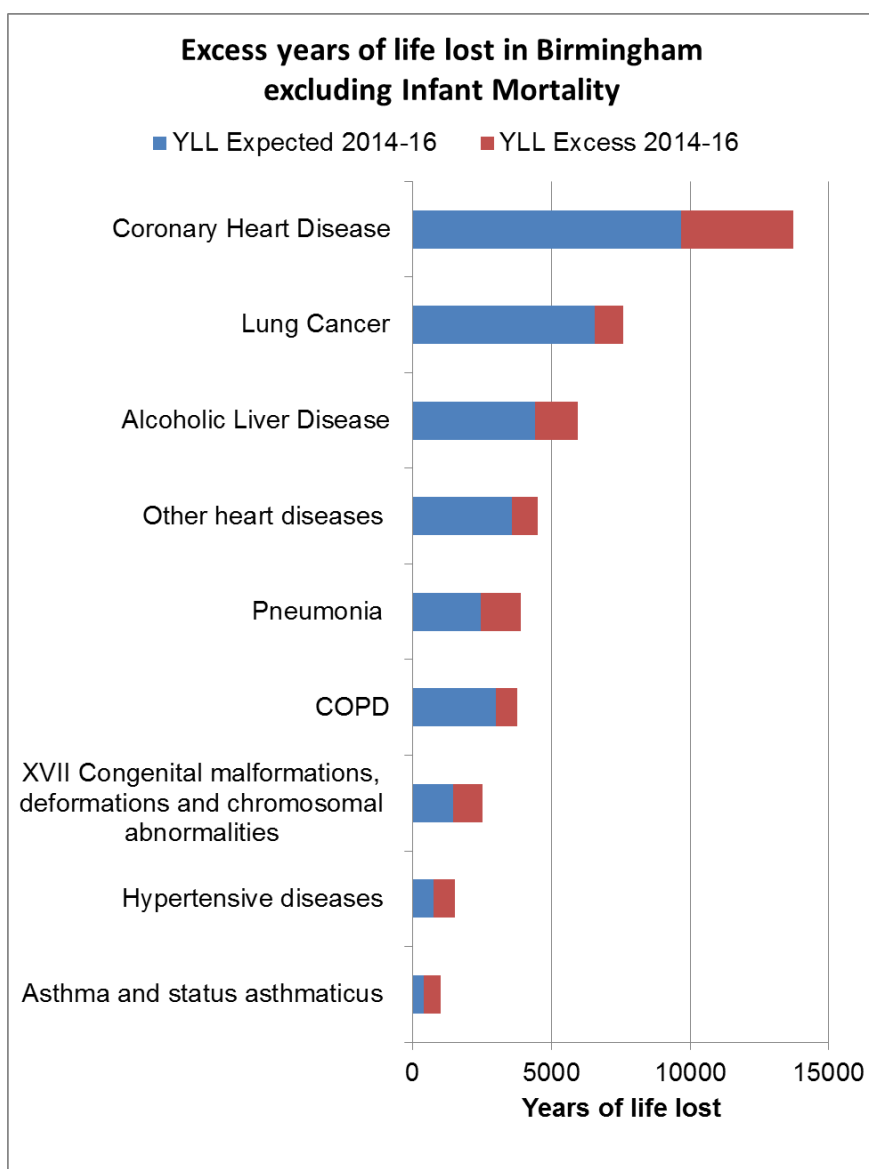


Figure 4 - Excess years of life lost in Birmingham excluding infant mortality. Source: ONS Deaths

For the three main conditions contributing to early death in Birmingham, we have calculated the excess years of life lost for each locality. In North locality alcoholic liver disease is the main cause of early death with almost 419 excess years of life lost between 2014-2016.

Table 1 - Excess years of life lost for main conditions by locality. Source: ONS Deaths 2014-16

Locality	Excess Years Life Lost 2014-16		
	Coronary Heart Disease	Lung Cancer	Alcoholic Liver Disease
Central	770	185	62
East	178	329	178
North	353	310	419
South	395	-6	304
West	1,486	218	589

## Child Health

### Infant mortality

Birmingham has the worst infant mortality rate of all the local authorities in the country – 7.9 per 1,000 live births (England 3.9) (2014-2016). The rate for North locality is higher than for Birmingham at 7.6 per 1,000 live births.

#### Birmingham Ward Level Infant Mortality Rate 2014-2016

Source: ONS Births

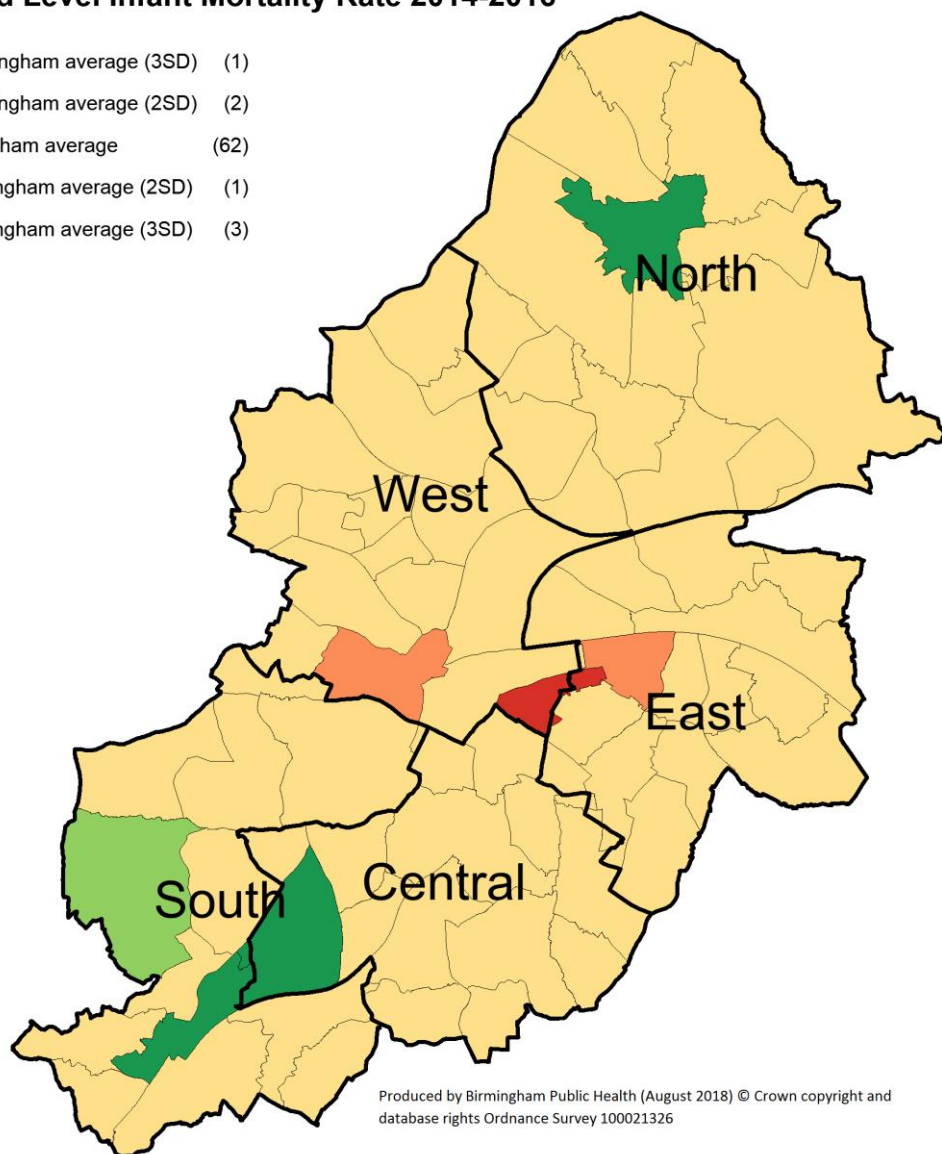
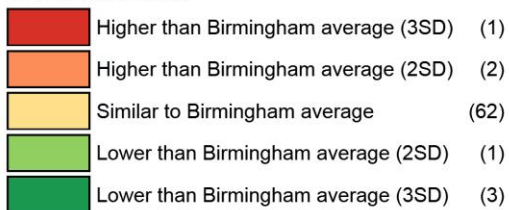


Figure 5 - Infant Mortality Rate 2014-16 by ward map. Source: ONS Births

The map shows that most wards are similar to the Birmingham average which is much higher than England. Bordesley Green, Heartlands and Ladywood wards shown in red have a higher infant mortality rate compared to the Birmingham average.

## Child obesity

Birmingham has a higher prevalence of child obesity. More than one in ten 4-5 year olds are obese (11.5%) and a quarter of all 10-11 year olds (25.5%)

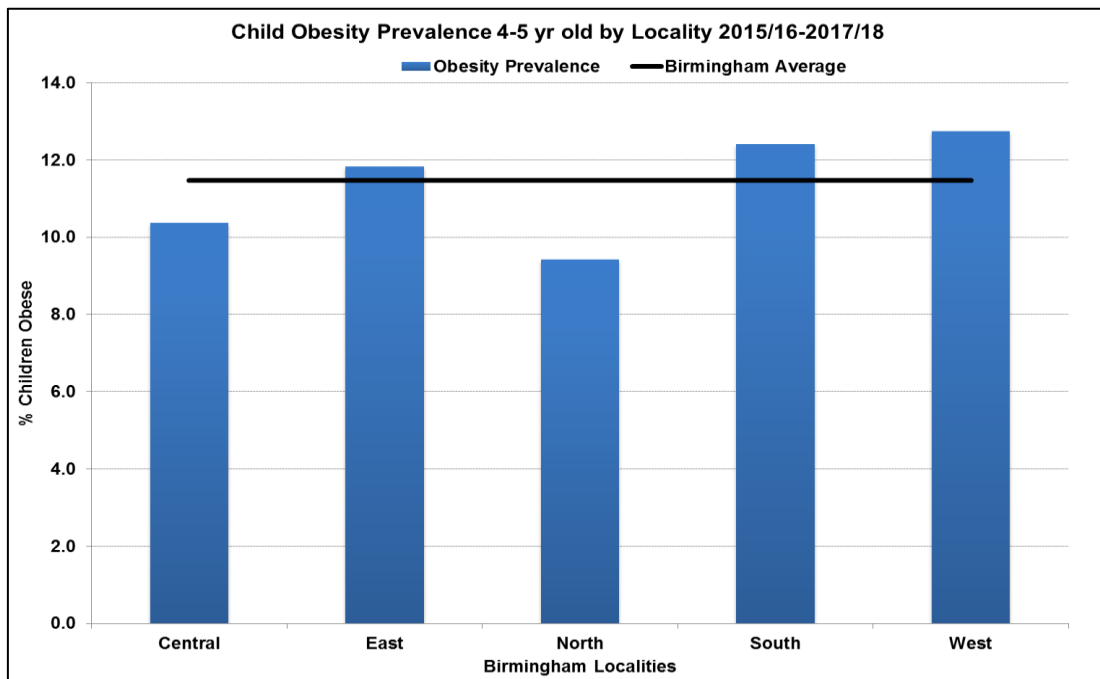


Figure 6 - Childhood obesity 4-5 year olds by locality. Source NCMP 2015/16-2017/18

The prevalence of obesity in North locality is lower than the Birmingham average for both 4-5 year olds (9.4%) and 10-11 year olds (21.2%).

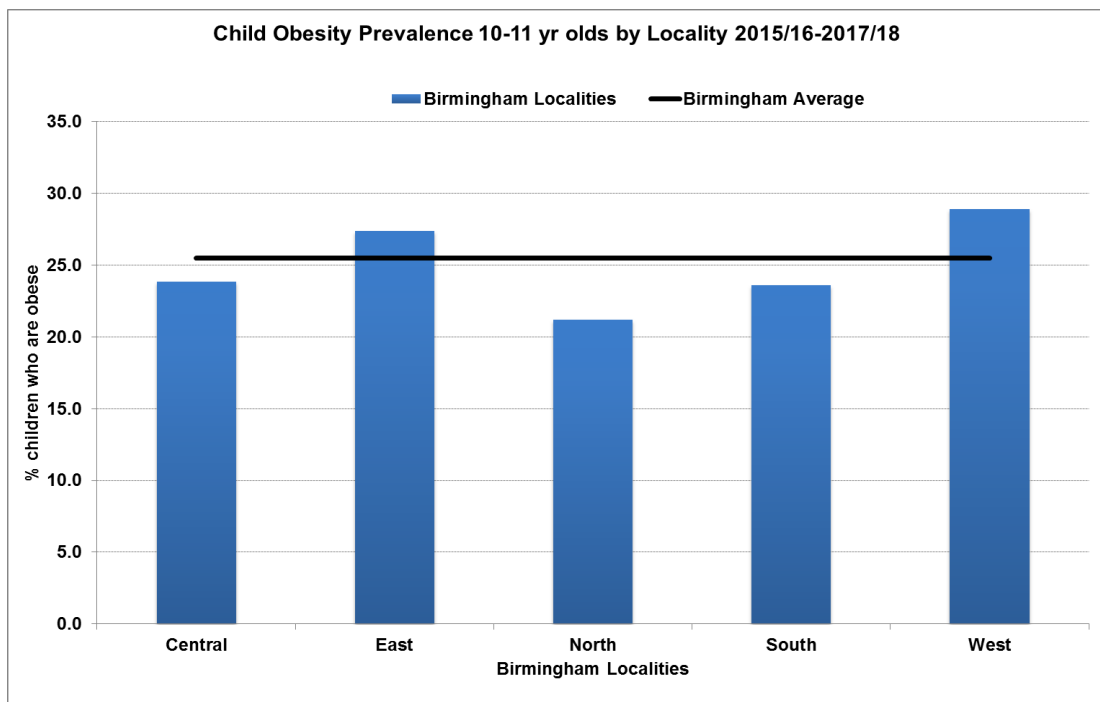


Figure 7- Childhood obesity 10-11 year olds by locality. Source NCMP 2015/16-2017/18



## Child educational attainment

Figure 8 shows the percentage of children achieving a good level of development during their foundation year. Achievement in North locality is similar to the England average but higher than Birmingham.

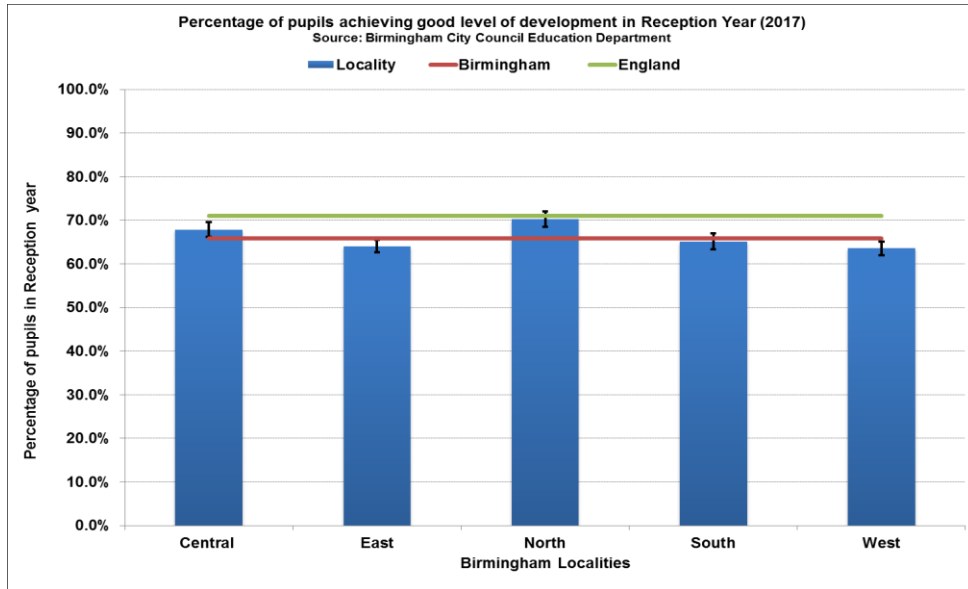


Figure 8 – Reception Year 2016/17 Attainment Percentage

Figure 9 shows the percentage of children by locality achieving 5 or more A-C Grades at GCSE during 2016/17. Achievement in North locality is similar to both the England and Birmingham averages.

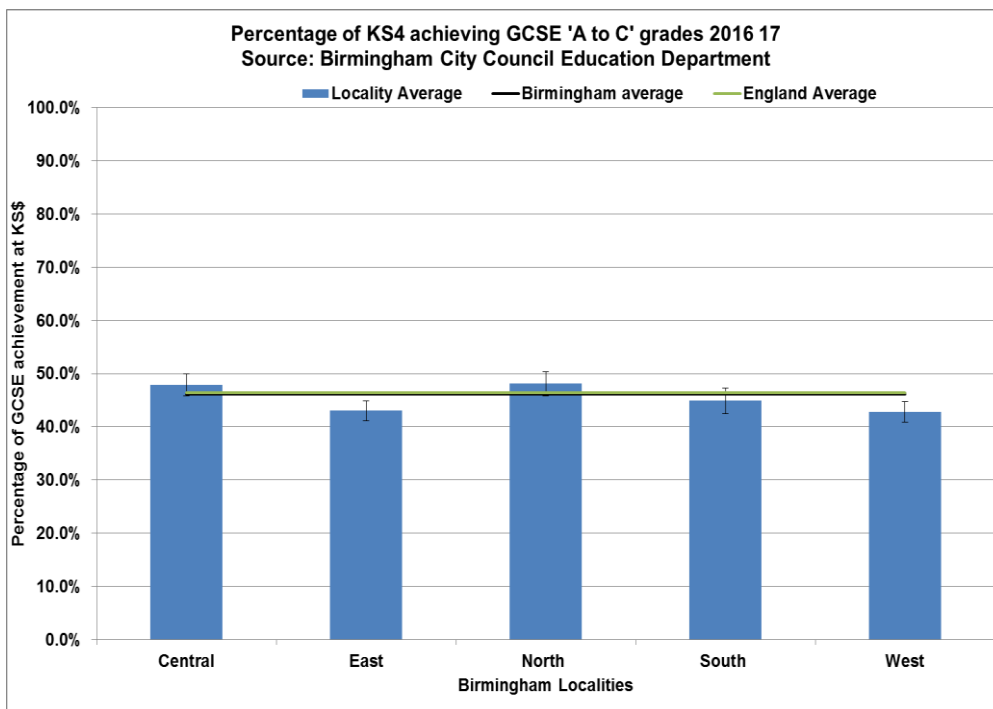


Figure 9 – KS4 GCSE result Grades A to C 2016/17 Attainment Percentage

## Child protection

The figures below show the numbers of children in with a child protection plan (CPP) and those in the care of the local authority (CIC). These charts do not include those children whose place of residence cannot be identified (for child protection reasons) which are 21% of CIC and 7% of those with a CPP.

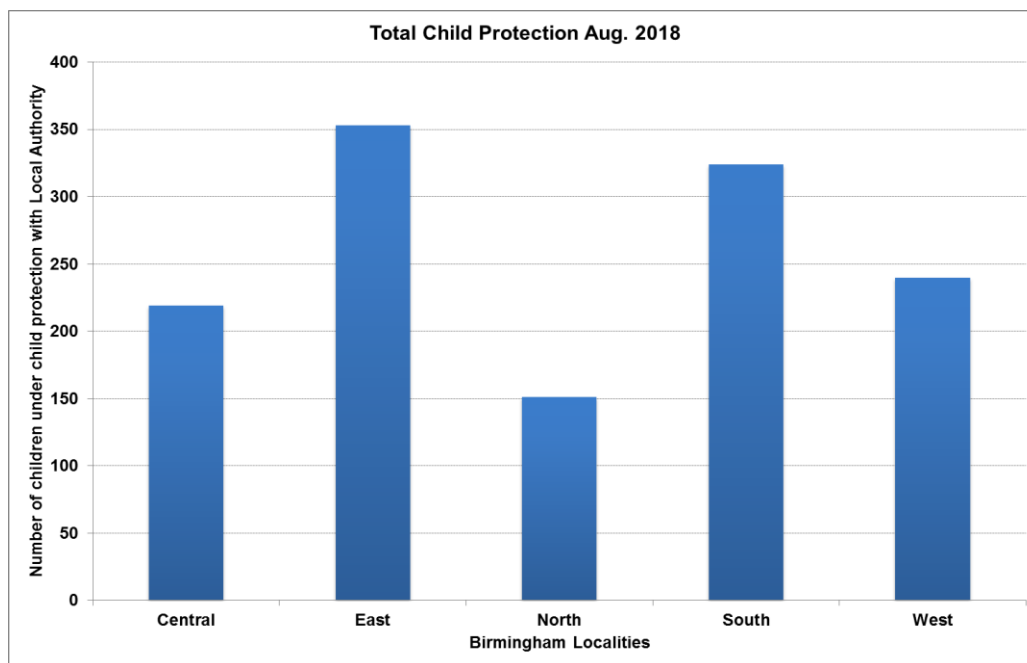


Figure 10 – Number of children under Child Protection Order August 2018<sup>1</sup>

## Children in care

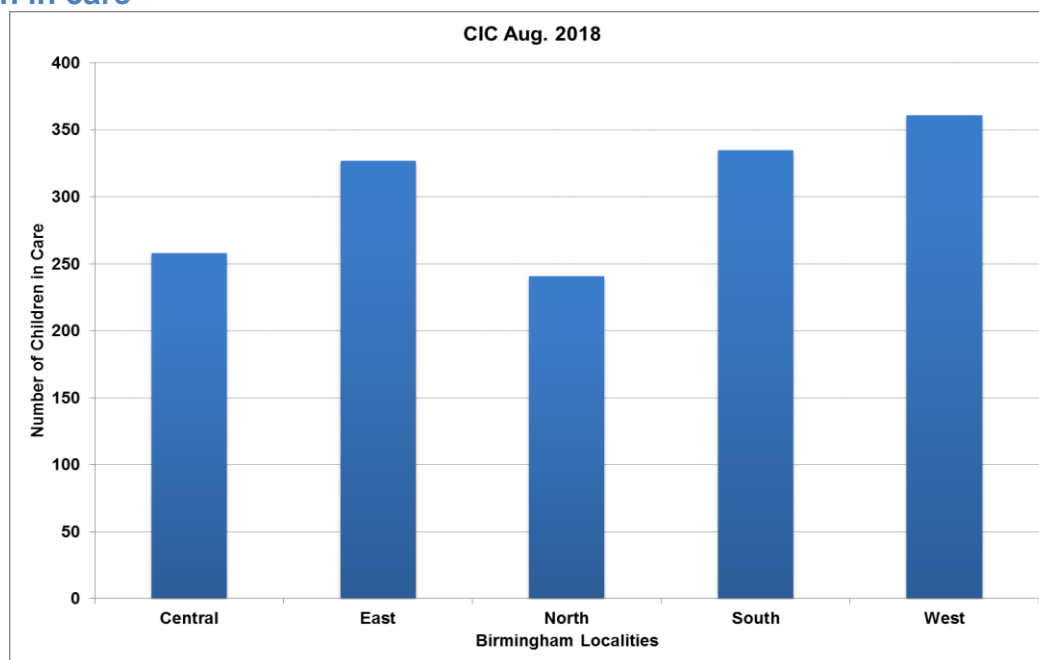


Figure 11 – Number of children identified in care August 2018<sup>2</sup>

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<sup>1</sup> Sourced from Birmingham CYPF data strategy team

## Child mental health

As part of the HeadStart Phase 3 bid an experimental mental health index was created using 30 indicators grouped into 5 sections (children and families, crime, economics, hospital activity and education).<sup>3</sup> An overall score was created to give an indication of resilience and mental wellbeing. Those areas with the lowest scores (shaded darkest on the map) are potentially more likely to have lower resilience and poorer mental wellbeing. In North locality areas within Erdington constituency have low scores on the index.

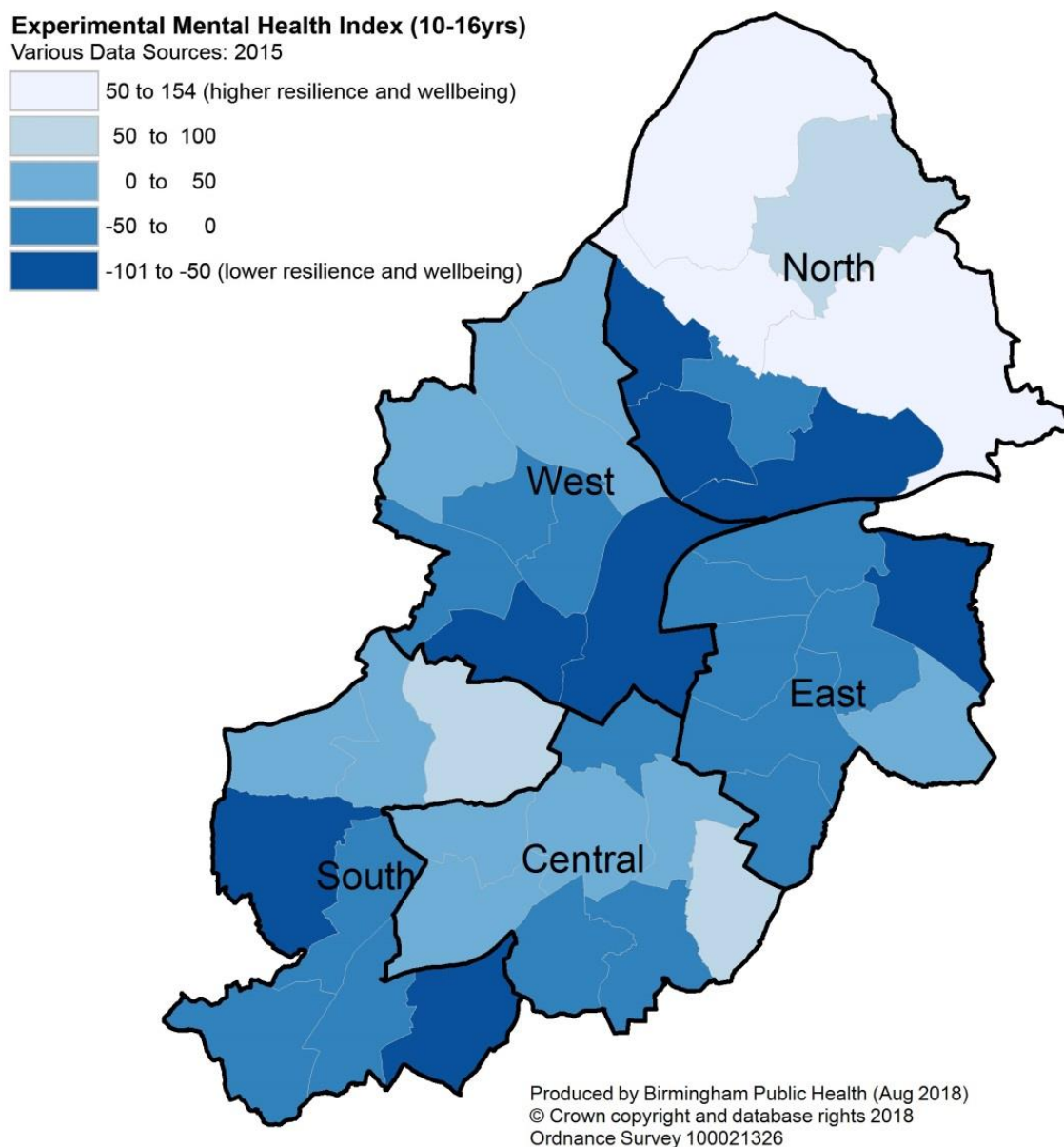


Figure 12 : Experimental Mental Health Index (10-16yrs). Source: HeadStart Strategy 2015

<sup>2</sup> Sourced from Birmingham CYPF data strategy team

<sup>3</sup> HeadStart Strategy Stage 3 2015 available online

[https://www.childrensociety.org.uk/sites/default/files/HeadStart\\_Strategy\\_Stage\\_3%20\\_xfinal.pdf](https://www.childrensociety.org.uk/sites/default/files/HeadStart_Strategy_Stage_3%20_xfinal.pdf)

## Working Age Adults

A Birmingham Public Health priority for working age adults is to address the cumulative impact of unhealthy behaviours e.g. smoking and substance misuse.

### Smoking

Smoking attributable deaths account for around half of all deaths across Birmingham each year. The chart shows the percentage of these deaths for each Birmingham locality over 3 year rolling trends from 2010-2016. During this period there were a total of 21,288 deaths in the city that could be attributed to smoking. For North locality the total was 4,664 deaths which is the second largest total across the five localities that make up Birmingham.

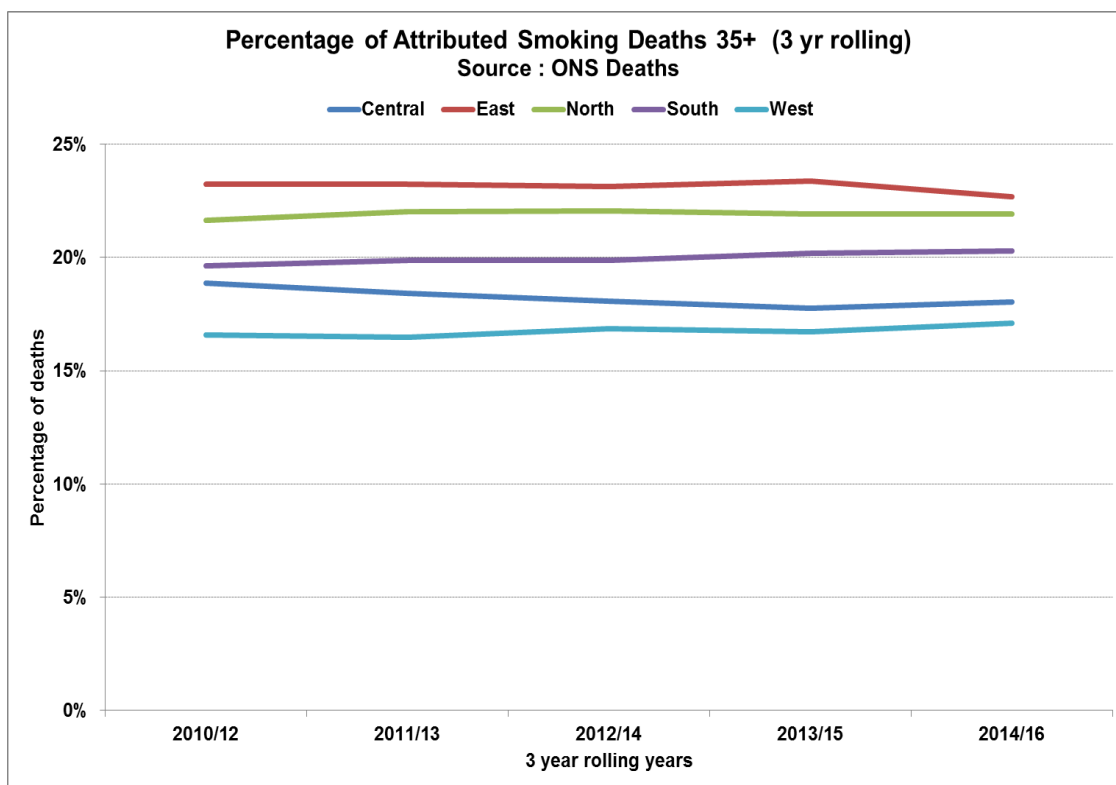


Figure 13- Attributed smoking deaths. Source: ONS Death

### Alcohol

Alcohol related deaths account for approximately 16% of all deaths within the 25 to 64 year age group each year across Birmingham.

North locality account for 19% of all alcohol related deaths across Birmingham.

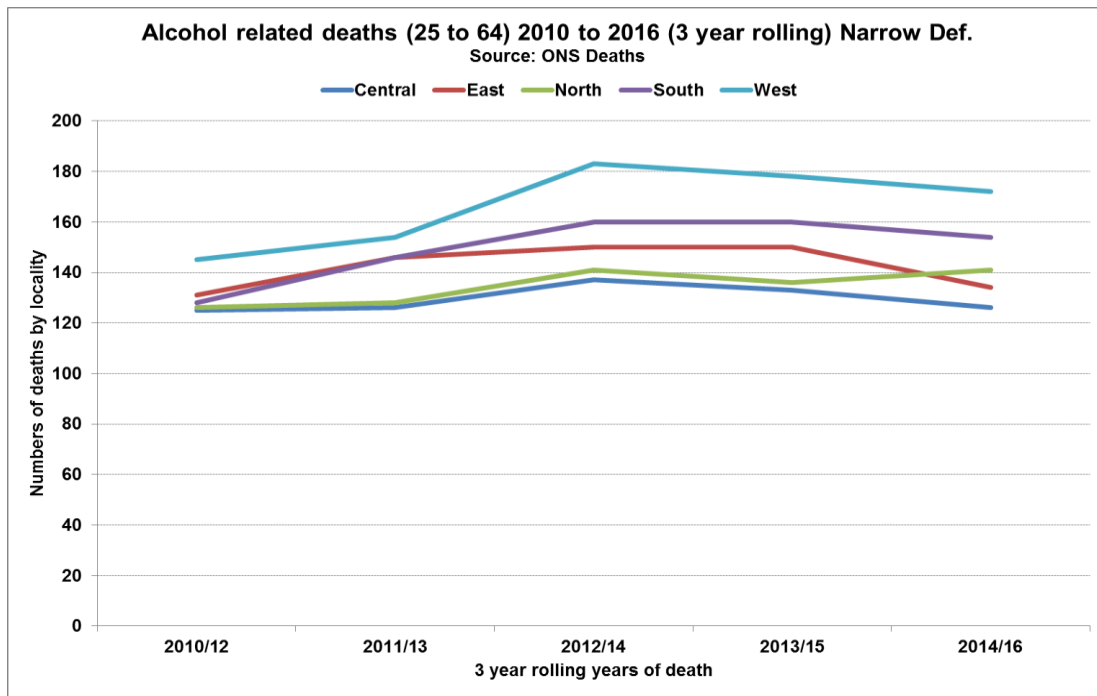


Figure 14- Chart showing alcohol related deaths 25-64. Source: ONS Deaths 2010-2016

Hospital admission rates for alcohol related admissions rates in 2017/18 for North locality between the ages of 25-64 are the highest in Birmingham. The chart below shows that they were higher than both the Birmingham and national averages.

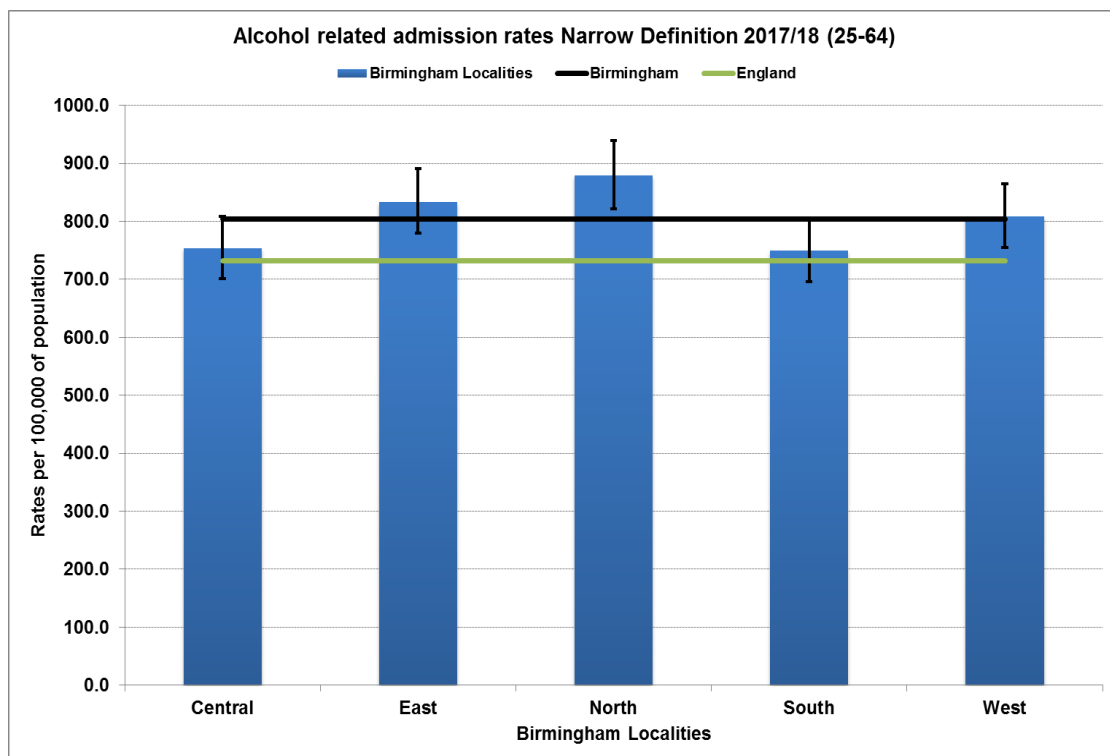


Figure 15- Chart of alcohol admission rates. Source: NHS Digital 2014-2017

## Substance misuse

Drug misuse is a significant cause of premature mortality in the UK. Analysis of the Global Burden of Disease Survey 2013 shows that drug use disorders are now the third ranked cause of death in the 15–49 year age group in England. Birmingham Public Health commission drug treatment services for the city. The chart below shows the number of deaths between 2014/16 for each Birmingham locality that are specifically related to drugs (not including alcohol). Intentional and unintentional deaths are included.

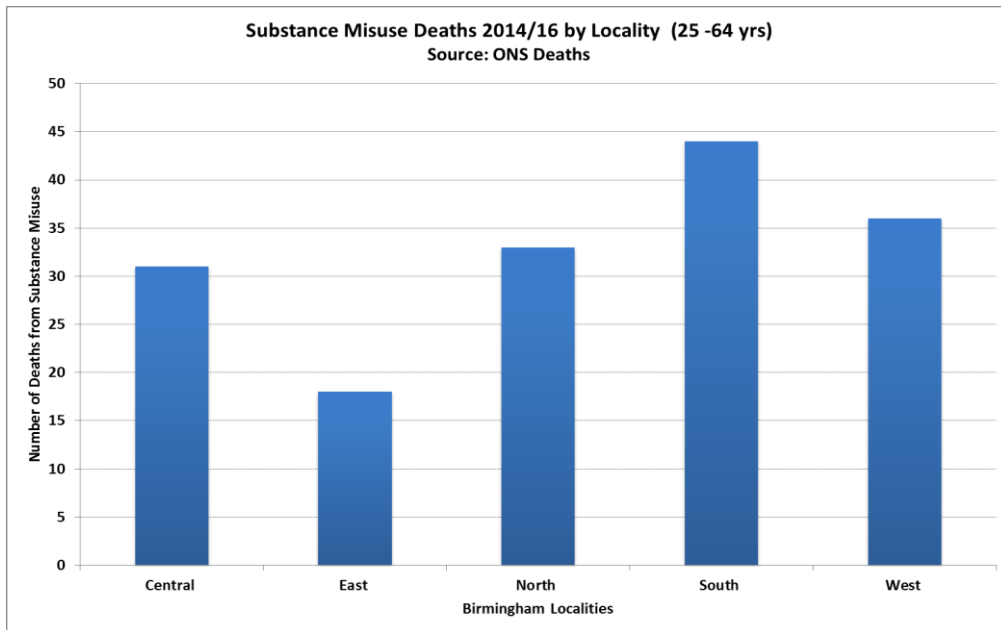


Figure 16 – Number of deaths from drugs. Source: ONS Deaths

Hospital admission rates for substance misuse for 25 to 64 year olds are shown below. Broken down by locality, these are inpatient admissions for mental and behavioural disorders, toxic effects and poisoning.

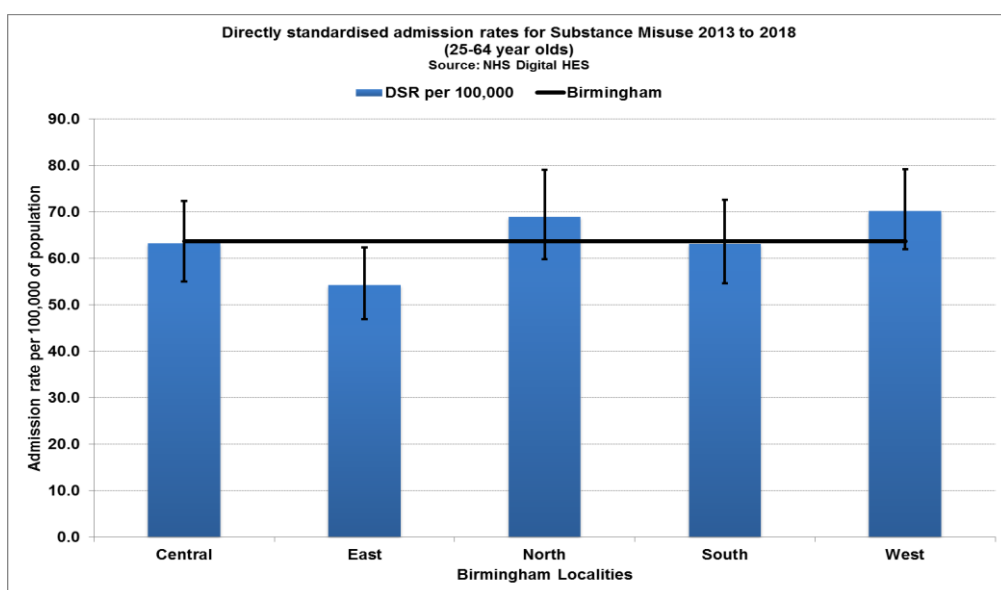


Figure 17 - Chart of DSRs for substance misuse. Source: NHS Digital HES 2013-2018

## Learning disability and employment

The proportion of supported working age adults with learning disability in paid employment is an indicator in the Adults Social Care Outcomes Framework. Birmingham has one of the lowest proportions in the country with less than 1% in employment during 2017/18. Nationally approximately 6% of people with learning disability have paid employment (ASCOF 2016-17).

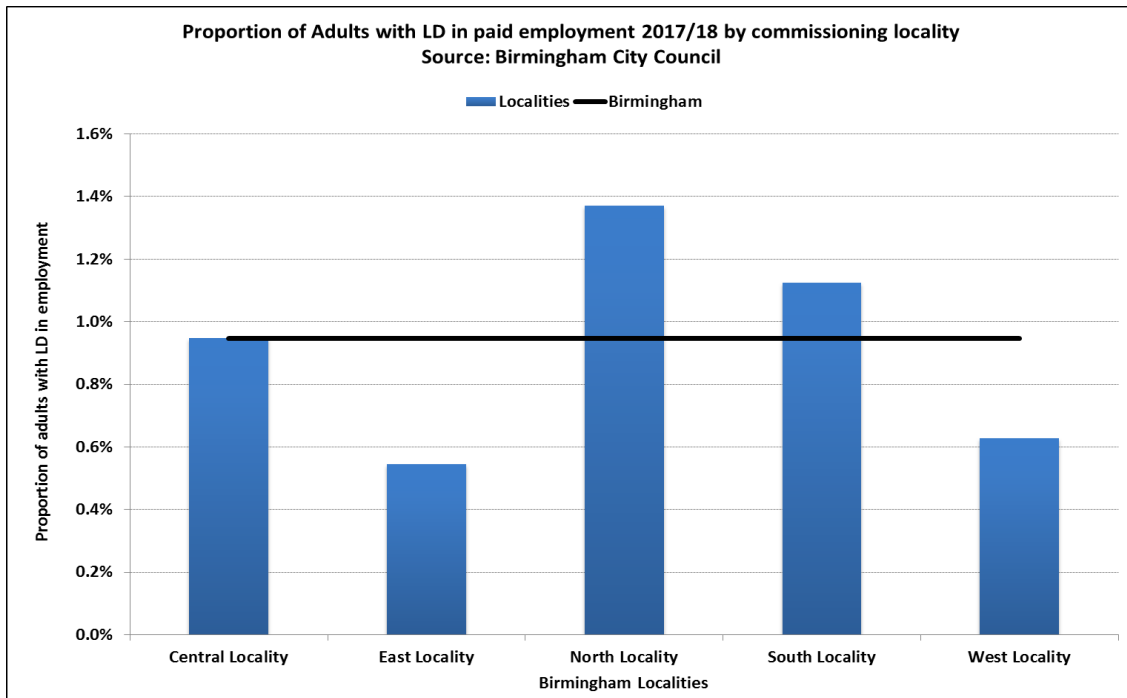


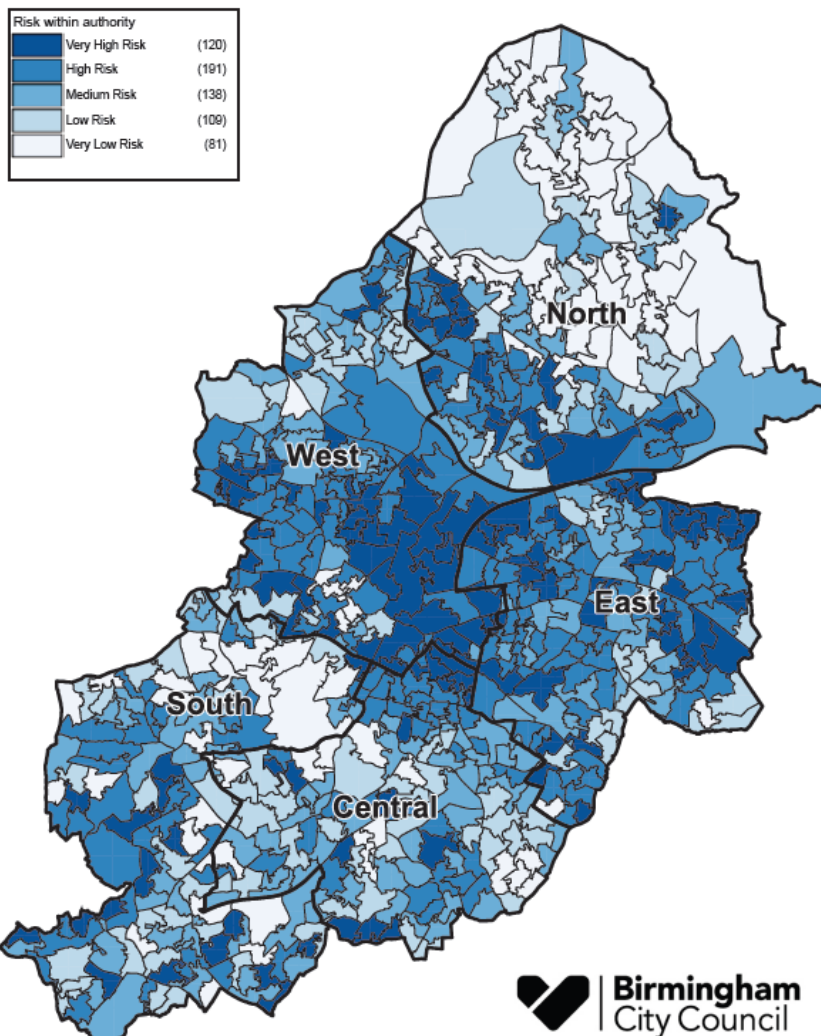
Figure 18 - Adults with LD in paid employment by locality. Source: Adults Social Care data 2017/18

## Older Adults

### Social isolation

People who feel socially isolated have a 30% higher risk of early death.<sup>4</sup> The map below shows the relative risk of loneliness based on Census 2011 information on marital status, health status, age and household size.

**Age UK Loneliness Index - Age 65+**  
**Risk of Loneliness by LSOA in Birmingham Localities**



Produced by Birmingham Public Health Knowledge, Impact & Outcomes Team (Aug 18)  
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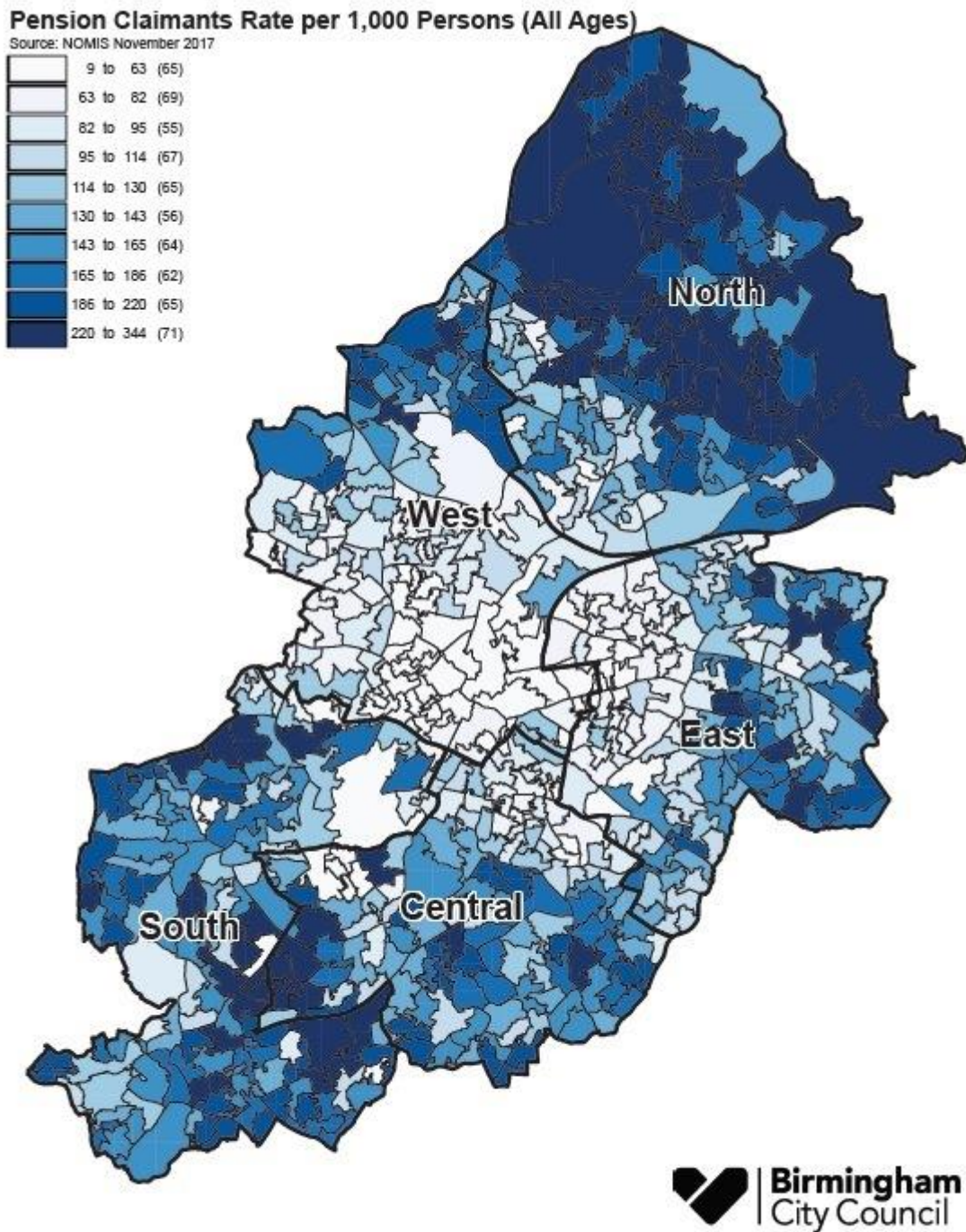
**Figure 19: Loneliness Index age 65+ by Birmingham LSOA. Source: Age UK**

North locality contains the lowest number of areas where there is a very high risk of loneliness amongst older adults.

<sup>4</sup> Holt-Lunstad J, Smith TB, Baker M, et al. Loneliness and Social Isolation as Risk Factors for Mortality - A Meta-Analytic Review, Perspectives on Psychology. Published online March 11 2015



## Pension claimants



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Figure 20: Pension Claimants per 1,000 2017. Source: NOMIS

Many of the areas within Sutton Coldfield constituency of North locality have a high density of pension claimants indicating there are large pockets of elderly residents and pockets of those with disabilities located in this area.

## Admissions for falls

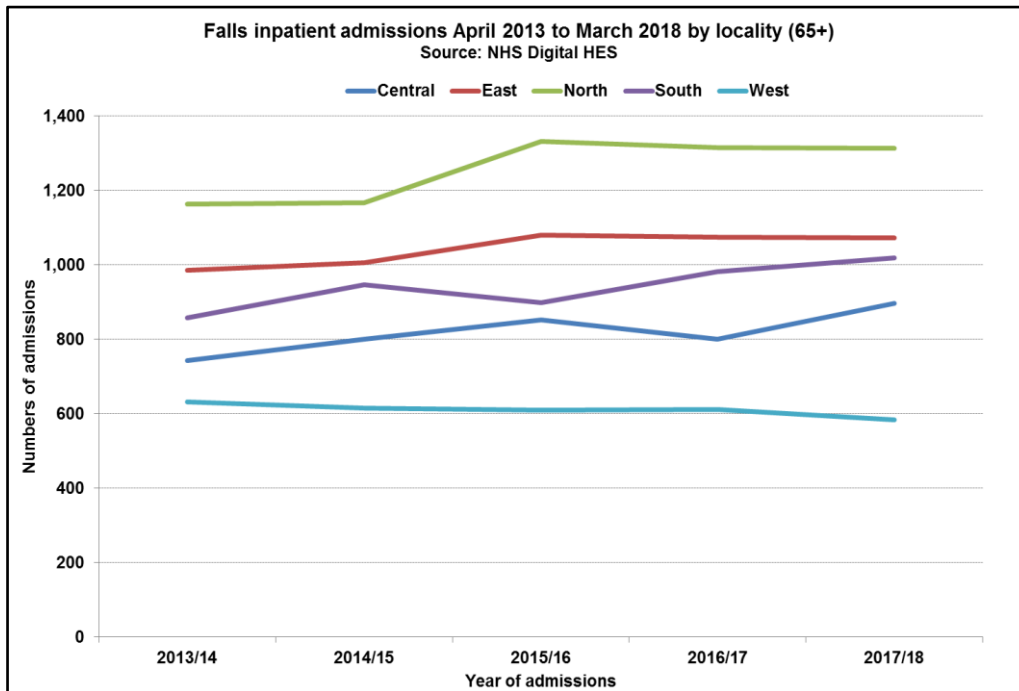


Figure 21: Number of Falls Admissions 65+ Source: NHS Digital HES

Between April 2013 and March 2018 there were approximately of 23,350 admissions across Birmingham for falls related conditions. 27% of these where in North locality

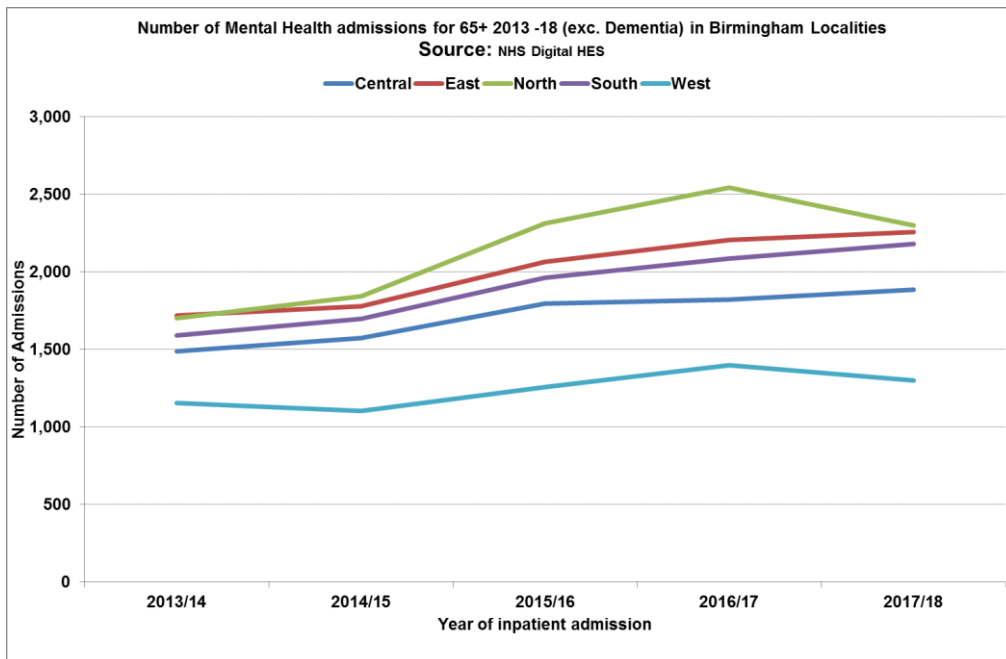


Figure 22: Number of mental health Admissions 65+ (excluding Dementia) Source: NHS Digital HES

Between April 2013 and March 2018 there were approximately of 45,000 admissions across Birmingham for mental health conditions excluding dementia. North Locality accounted for 24%.

## End of life care

The majority of residents who die in Birmingham in any given year are in the 65+ age group. Our biggest killers are cancers and cardiovascular diseases; it is therefore important that patients are permitted to die in their own chosen place and receive high quality palliative care in their last twelve months of life. There is no data available on whether patients are receiving end of life care (EOLC) in their preferred place. The figure below shows the place of death for residents in North locality.

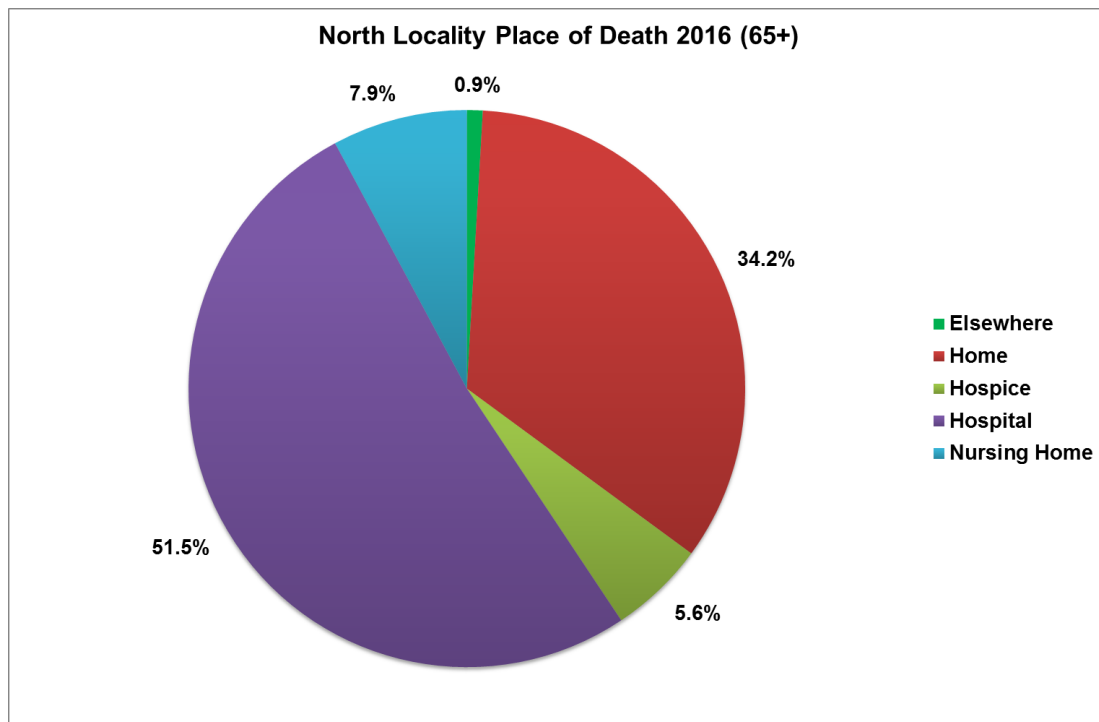


Figure 23: Percentage of Place of Death 2016 Source: ONS Deaths

During 2016 there were a total of 6,776 deaths in Birmingham in the 65+ years age group. Of these 1,528 were North locality residents. 51.5% of deaths in North locality for this age group took place in hospital (54.6% for Birmingham). Nationally, the main measurement relating to EOLC is those deaths taking place at home or in a hospice. North locality had 34.2% of deaths occurring at home (Birmingham 32.2%) and 5.6% in a hospice (Birmingham 6.8%). This indicates that more people aged over 65 die at home in North locality than across the rest of Birmingham but a smaller proportion occur in a hospice.

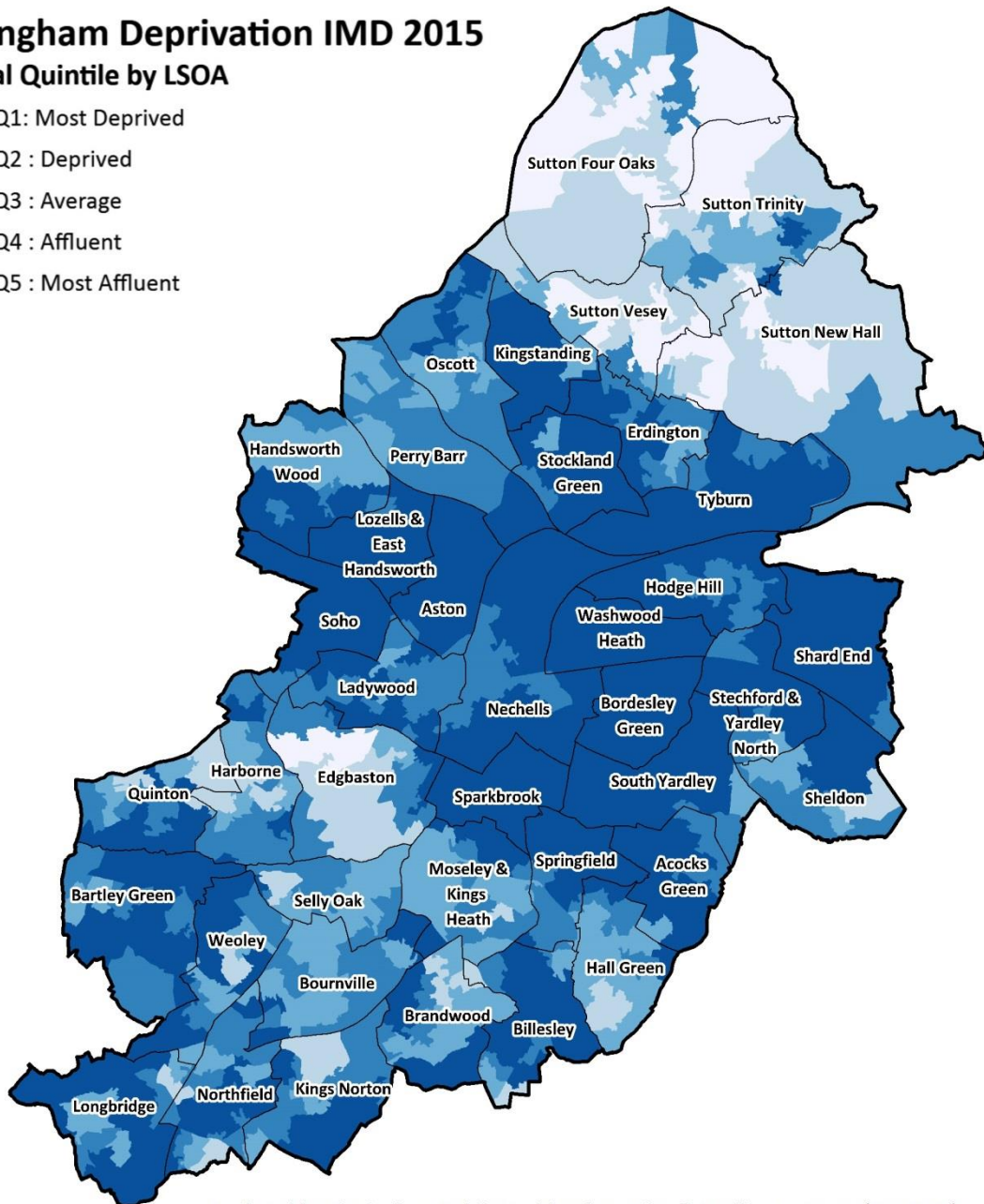
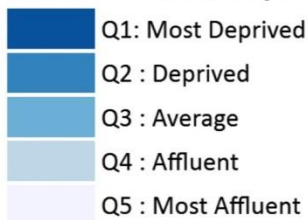
## Healthy Environment

### Deprivation

The Index of Multiple Deprivation (IMD) is a measure of the relative levels of deprivation at small area levels. Birmingham as a whole has high levels of deprivation with 40% of the population living in the 10% most deprived areas of England. The figure below shows the local areas by their national rank, the darkest shading being the most deprived. Many areas within Erdington constituency of North locality are amongst the most deprived in the country.

### Birmingham Deprivation IMD 2015

#### National Quintile by LSOA



Produced by Birmingham Public Health Information & Intelligence Team (Nov2015).  
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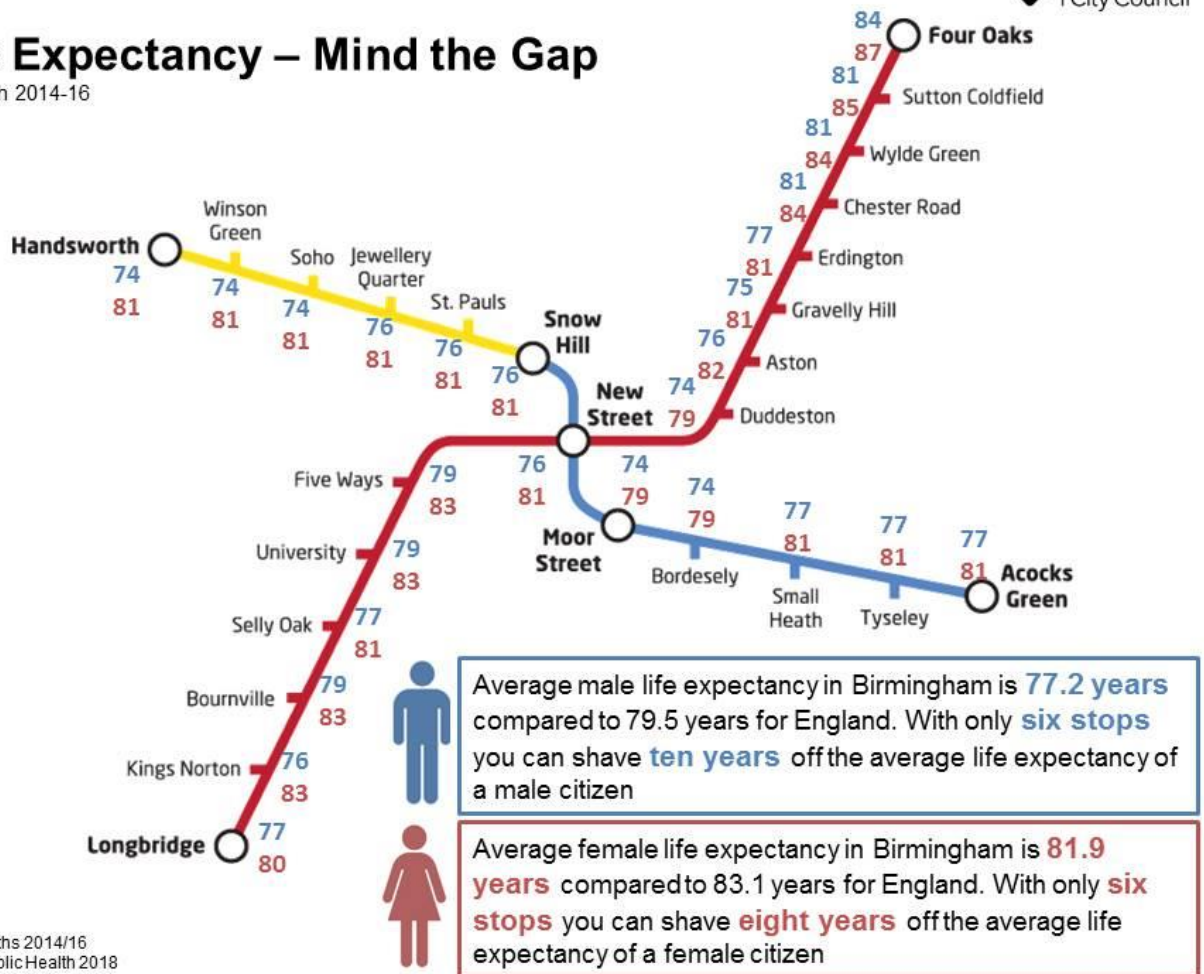
Figure 24 - deprivation map by Birmingham ward. Source: IMD 2015

### Life expectancy inequality

Life expectancy in Birmingham is lower than the national average. However within the city there is great variation between areas. The train and metro map shows life expectancy for males and females around areas of the city. With only six stops on the train life expectancy varies by 10 years for males and 8 years for females.

## Life Expectancy – Mind the Gap

at birth 2014-16



Source: ONS Deaths 2014/16  
© Birmingham Public Health 2018

Figure 25 - Life Expectancy Inequalities Across Birmingham Source: ONS Births / Deaths

## Air quality

In Birmingham it is likely that air pollution is second only to tobacco smoke in causing premature death (deaths before the age of 75). In the UK it is estimated that each year there are 40,000-50,000 deaths attributable to air pollution; in Birmingham based on current mortality, this equates to almost 900 deaths a year. Heart disease and stroke are the most common reasons for premature death attributable to air pollution, responsible for 80% of cases of premature death; lung diseases and lung cancer follow.



Figure 26: Map showing Nitrogen Dioxide levels. Source: DEFRA 2016

These two maps have been created using Public Health England's SHAPE tool<sup>5</sup> and show Nitrogen Dioxide NO<sub>2</sub> and PM<sub>10</sub> Particulate Matter levels for Birmingham.

<sup>5</sup> Strategic Health Asset Planning and Evaluation <https://shapeatlas.net/>

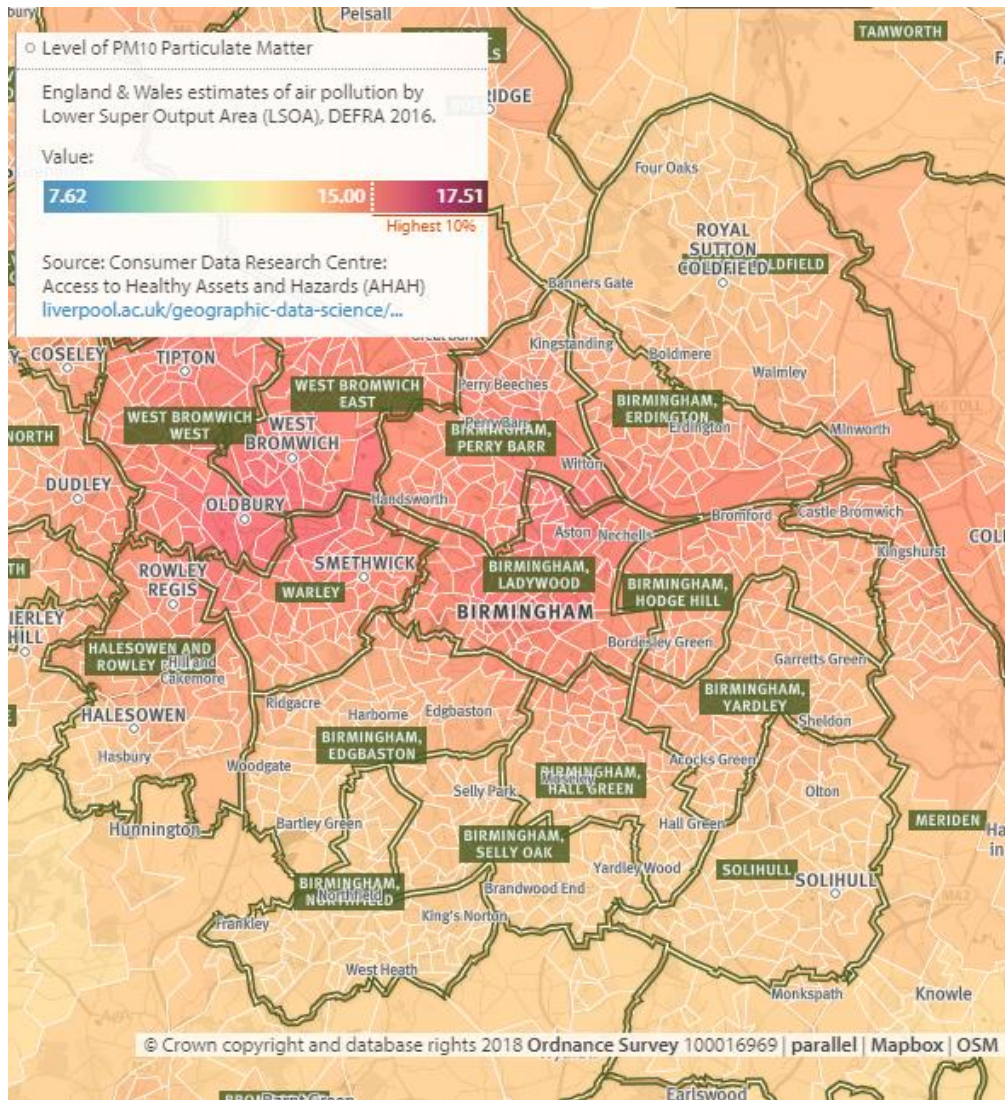


Figure 27: Particulate Matter levels. Source: DEFRA 2016

Erdington constituency has some high levels of both NO<sub>2</sub> and PM10 which will contribute to poor health and early death in the city.

## Becoming a food smart city

Prevalence of childhood obesity is higher in children from poorer neighbourhoods. Within these areas there are more fast food outlets.<sup>6</sup> Birmingham has a higher than the national average prevalence of child obesity. The map shows the location of takeaway and sandwich shops in the city with the obesity prevalence for 10-11 year olds.

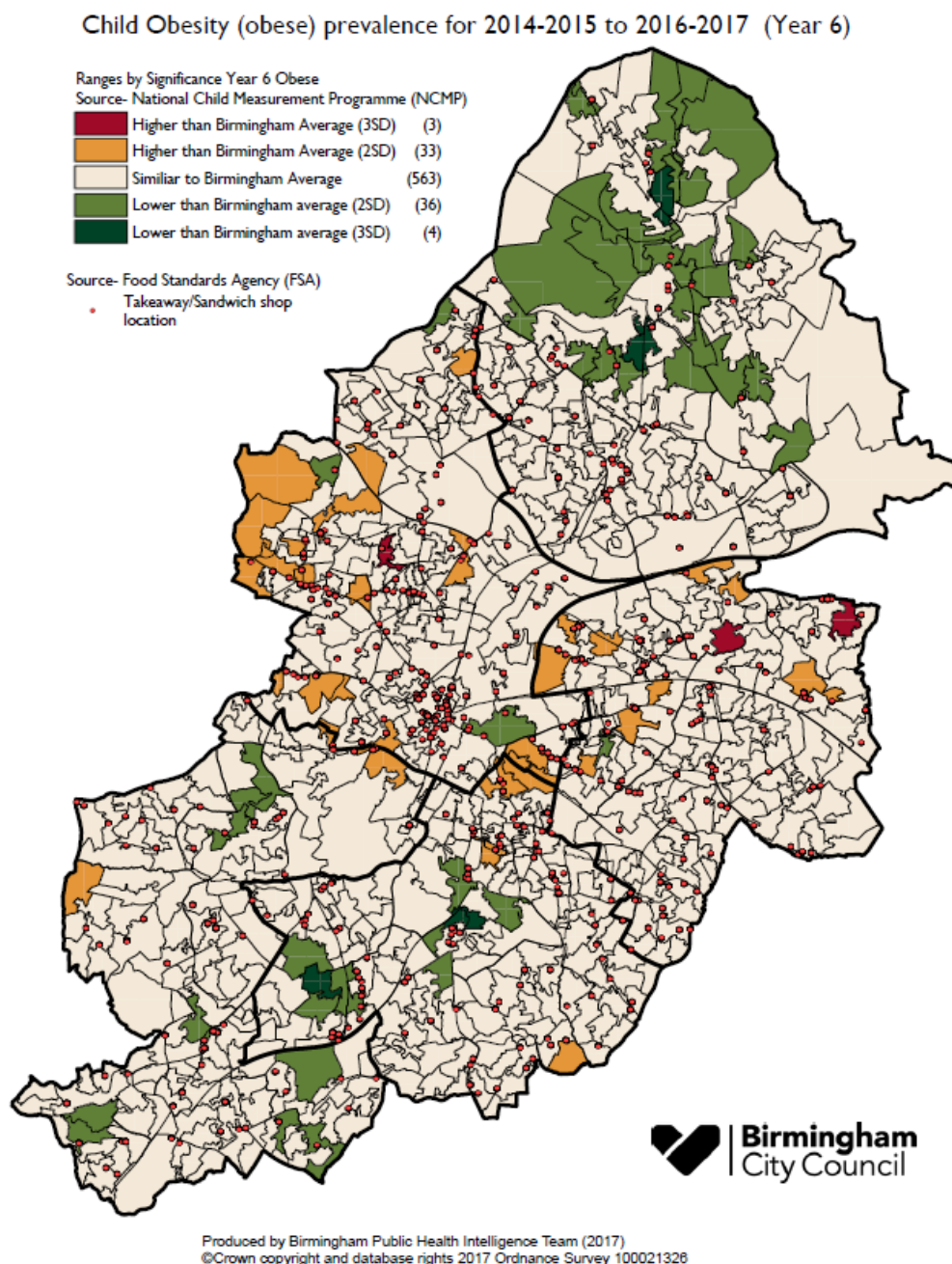


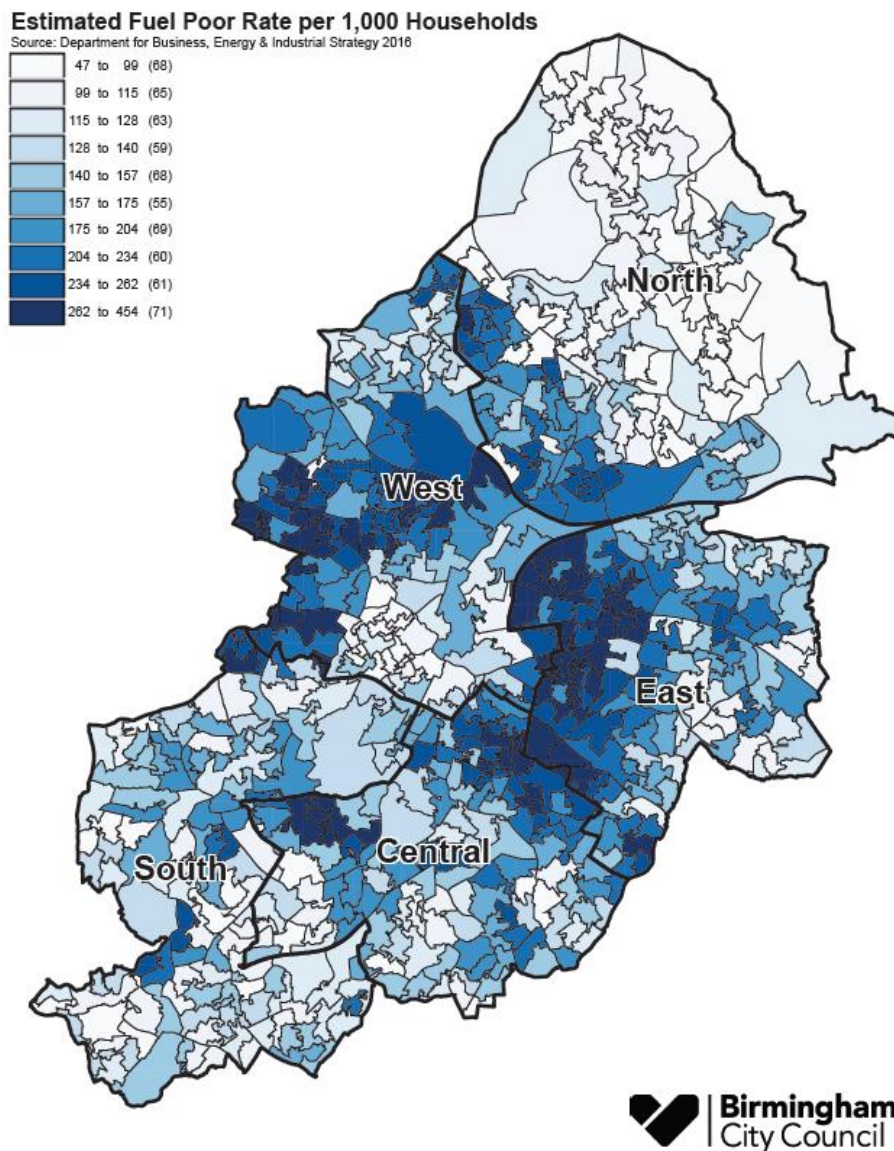
Figure 28: Birmingham takeaway/sandwich shops locations and childhood obesity prevalence age 10-11yrs.  
Source: Foods Standards Agency and NCMP

<sup>6</sup> Public Health England, Obesity and the environment briefing online available at: <https://www.gov.uk/government/publications/obesity-and-the-environment-briefing-regulating-the-growth-of-fast-food-outlets>



## Fuel Poverty

Fuel poverty is defined as households with a low income but with high energy costs. The map below shows that there is a lower than average percentage of the population in North locality who may be struggling to pay high energy costs with low incomes. However there are several areas within the locality with a high poverty rate. Living in a poorly heated home is strongly linked to poor health outcomes.



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Figure 29: 2016 Fuel Poverty by LSOA within locality

<https://www.gov.uk/government/collections/fuel-poverty-sub-regional-statistics>.

## Overcrowding

In Birmingham 9.1% of households were overcrowded (Census 2011). These households have at least one bedroom too few for the number of people living in the household. People living in challenging housing conditions are more likely to experience poor health.

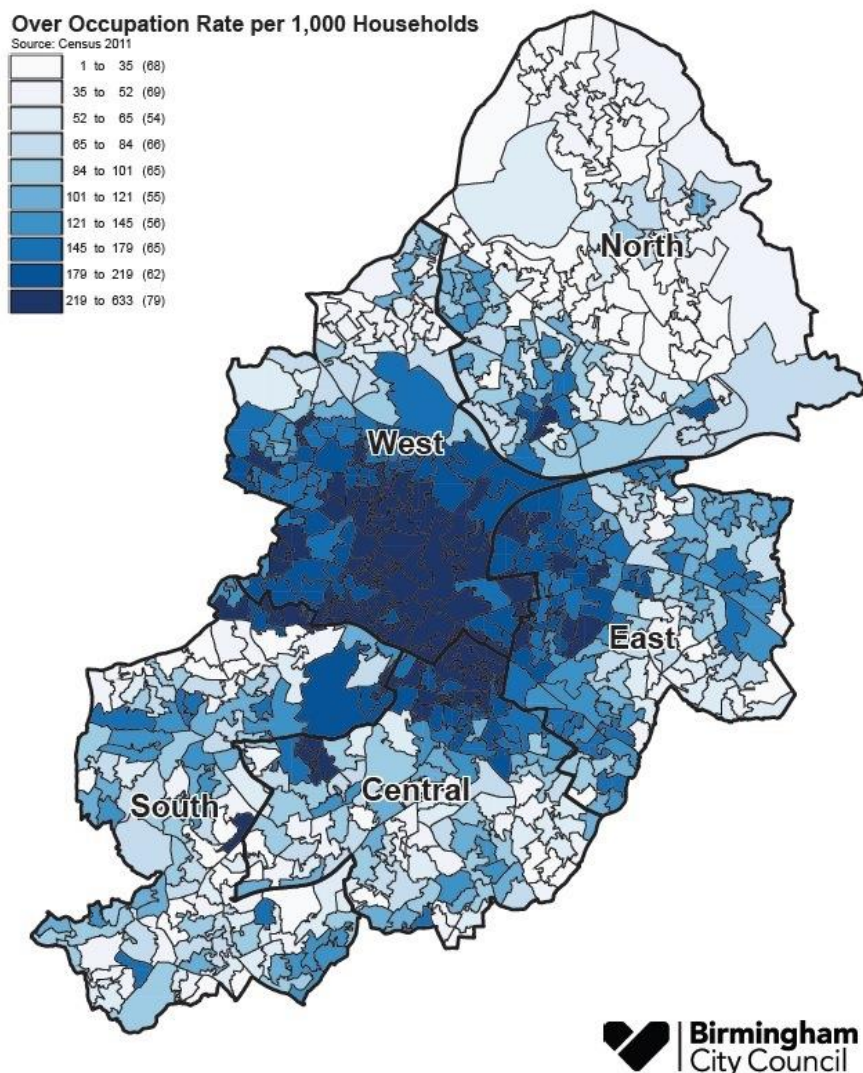


Figure 30: Overcrowding across Birmingham. Source: 2011 Census

## A&E Hospital Attendances

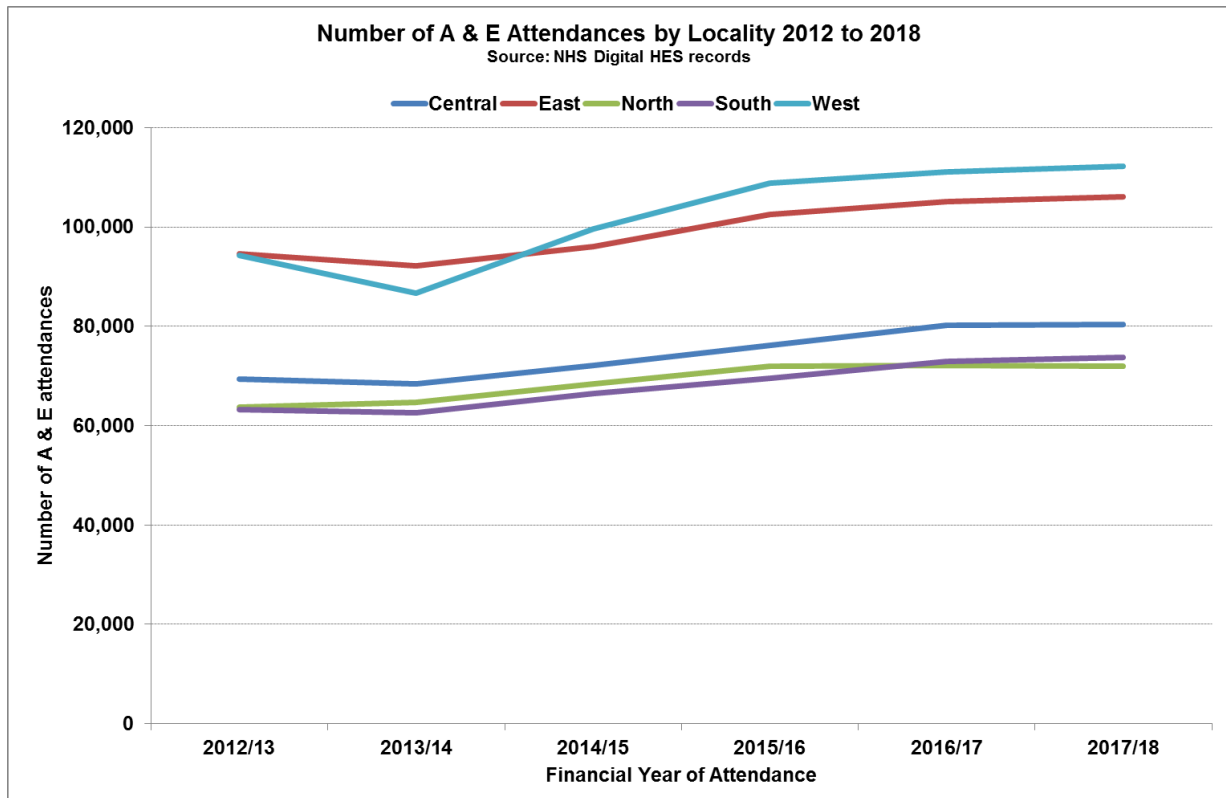


Figure 31 - A&E attendances by locality 2012-2018

A&E attendances have steadily increased across Birmingham over the last five years. Attendances within North locality have also risen but have recently reached a plateau and are currently the lowest across the city.

## Disease Breakdowns

**Cardiovascular disease (CVD)** is a general term for conditions affecting the heart or blood vessels. CVD is one of the main causes of death and disability in the UK, but it can often largely be prevented with a healthy lifestyle.<sup>7</sup>

A specific QOF no longer exists for CVD as a whole but to give a broader picture here are some of the main heart related diseases that come under CVD.

### Coronary Heart Disease (CHD)

CHD is the term that describes what happens when the heart's blood supply is blocked or interrupted by a build-up of fatty substances in the coronary arteries.

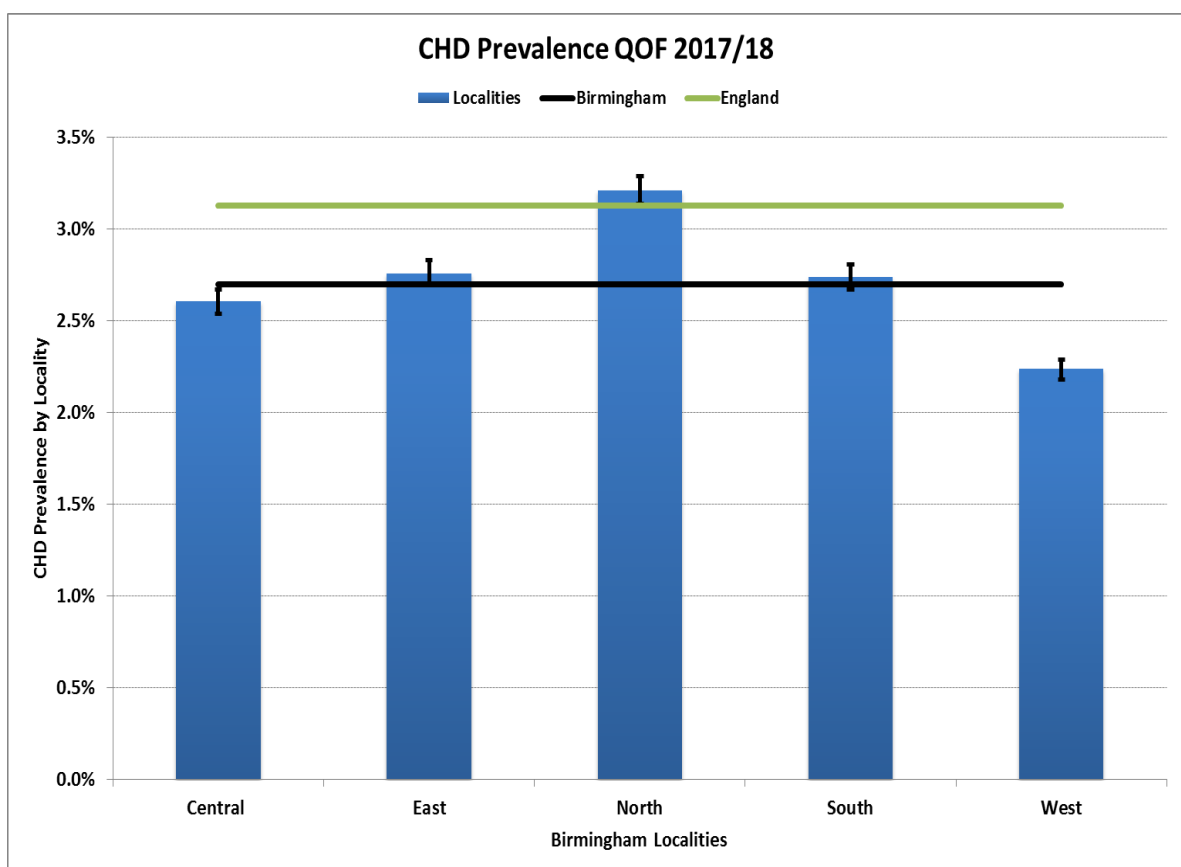


Figure 32 - CHD prevalence. Source: QOF 2017-18

A proxy has been developed to calculate locality prevalence based on the overall spread of populations within each practice. Using this method it can be estimated around 3.2% of the population of North locality is on the CHD register; this compares to 3.1% nationally, and 2.7% across Birmingham.

<sup>7</sup> Sourced from NHS Choices Website 22<sup>nd</sup> August 2018

## Stroke

There are two main causes of strokes: ischaemic – where the blood supply is stopped because of a blood clot, accounting for 85% of all cases and haemorrhagic – where a weakened blood vessel supplying the brain bursts.

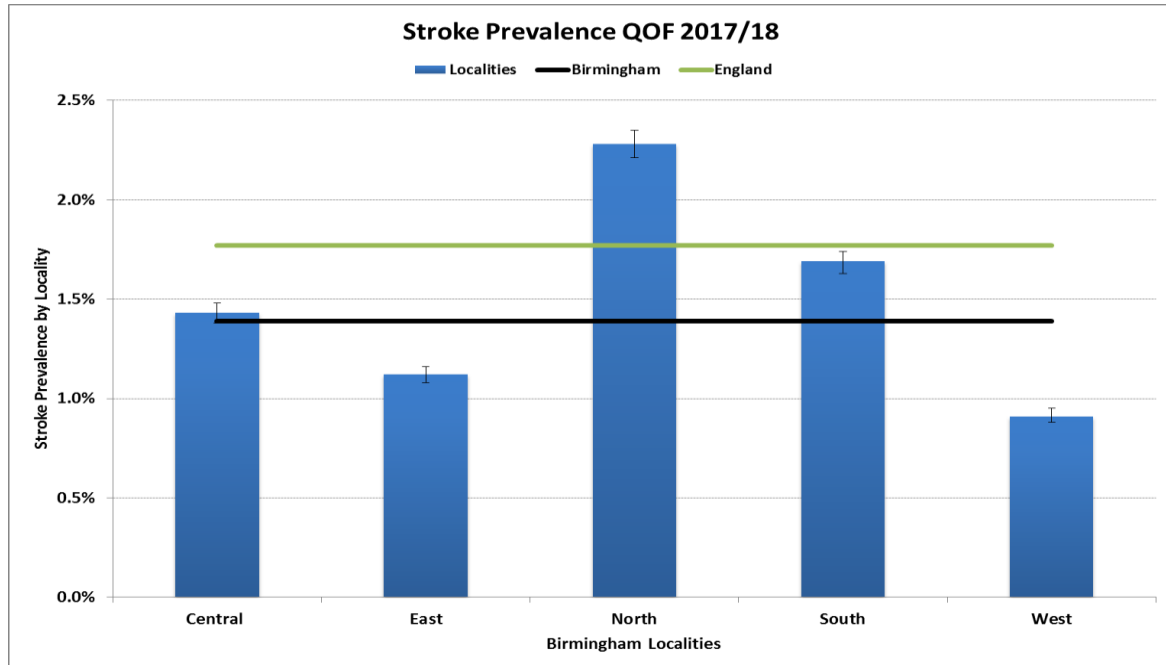


Figure 33- Stroke prevalence. Source: QOF 2017-18

It is estimated that North locality has around 2.3% of its registered population on the stroke register; this compares to 1.8% nationally, and 1.4% across Birmingham and has the highest prevalence across the city

## Hypertension

High blood pressure, or hypertension, can if untreated, increase the risk of serious problems such as heart attacks and strokes.

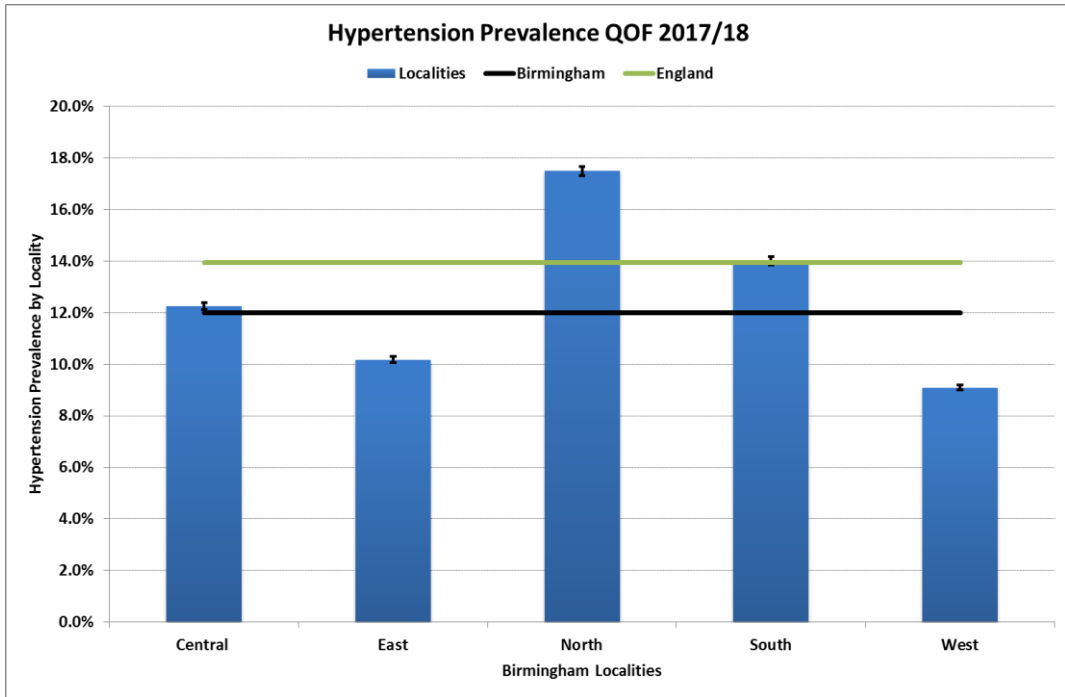


Figure 34- Hypertension prevalence. Source: QOF 2017-18

It is estimated that North locality has around 17.5% of its registered population on this register; this compares to 13.9% nationally, and 12.0% across Birmingham.

### Heart failure

Heart failure means that the heart is unable to pump blood around the body properly. It usually occurs because the heart has become too weak or stiff.

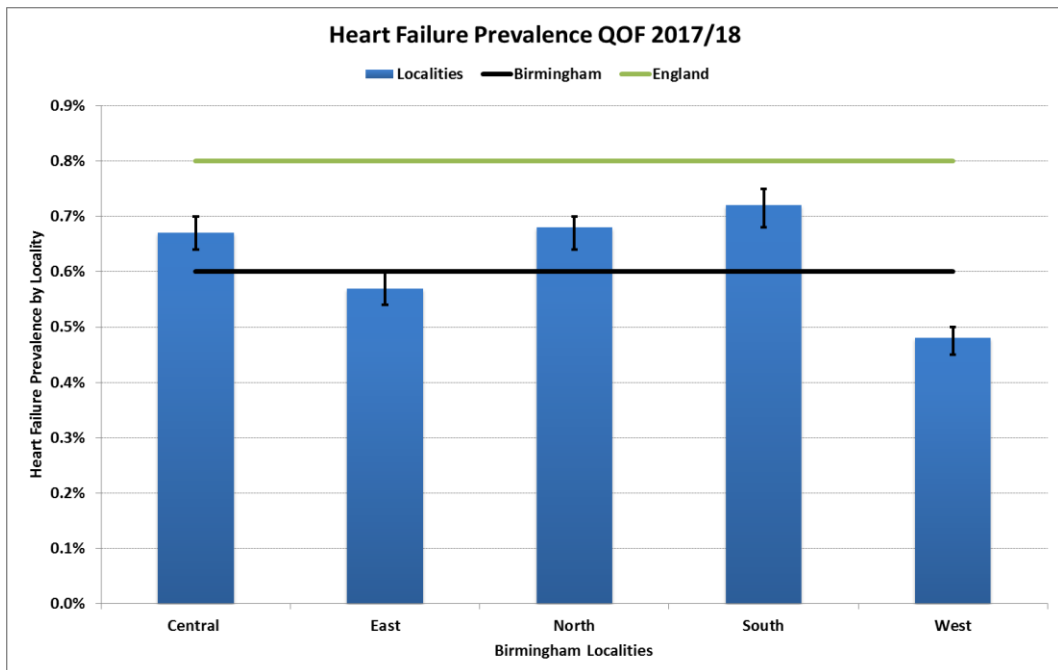


Figure 35 - Heart Failure prevalence. Source: QOF 2017-18

It is estimated that North locality has around 0.7% of its registered population on this register; this compares to 0.8% nationally, and 0.6% across Birmingham.

### Atrial fibrillation (AF)

AF is a heart condition that causes an irregular and often abnormally fast heart rate.

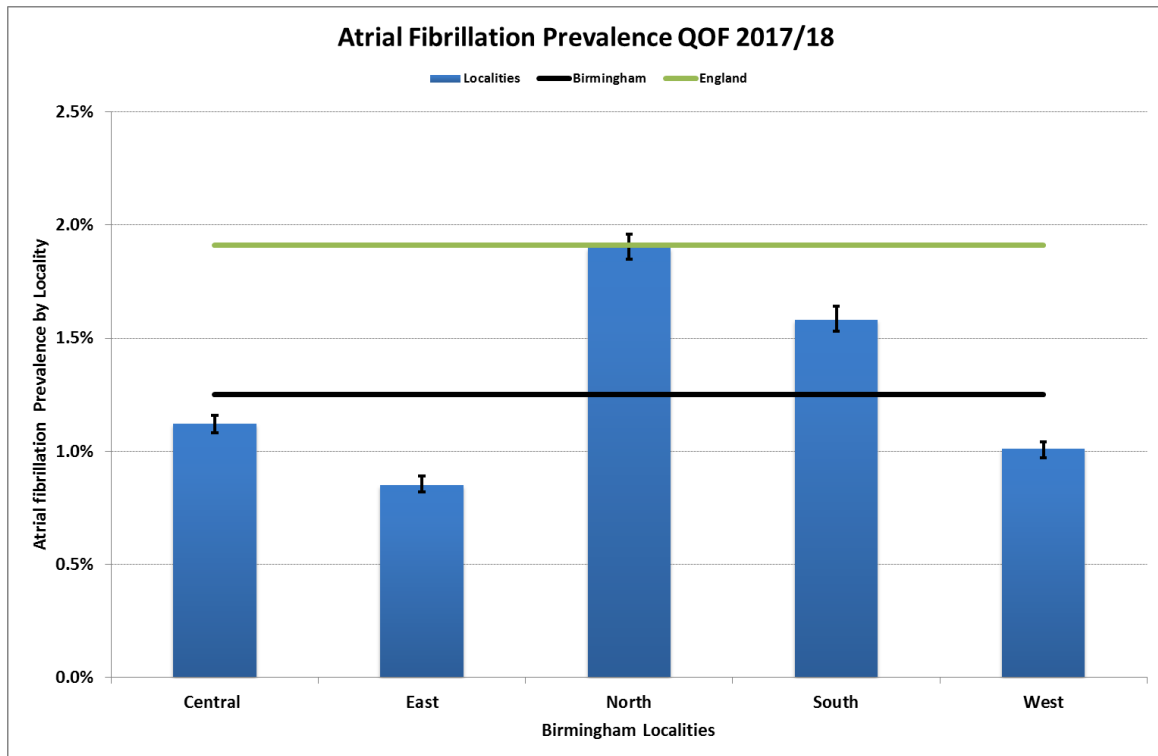


Figure 36 - Atrial Fibrillation prevalence. Source: QOF 2017-18

It is estimated that North locality has around 1.9% of its registered population on this register; this compares to 1.9% nationally, and 1.3% across Birmingham.

## CVD – hospital inpatient admissions

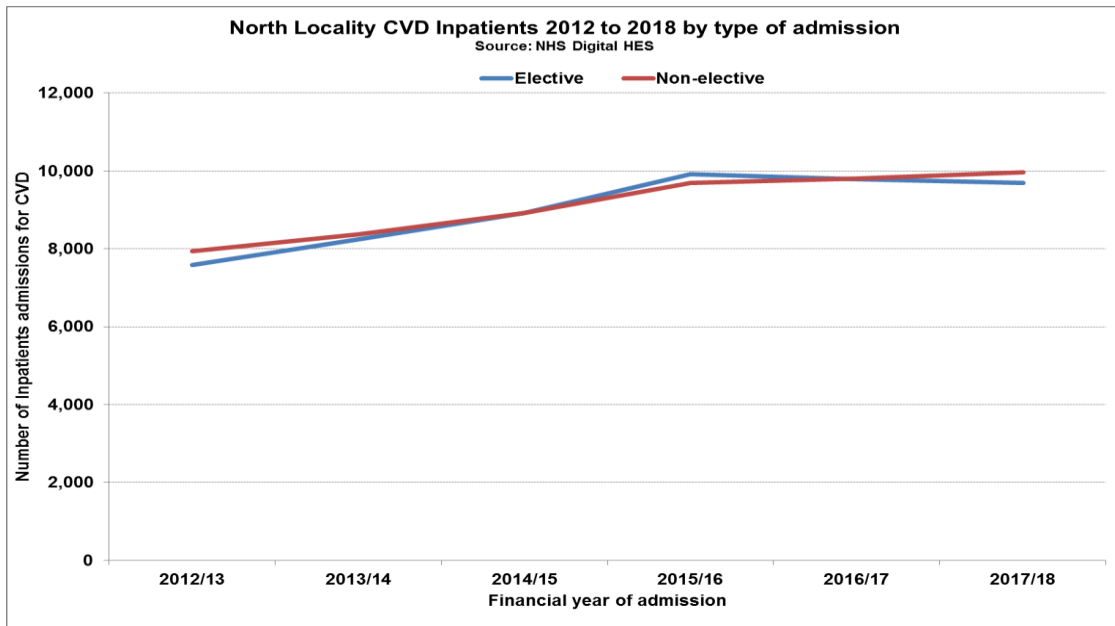


Figure 37 - CVD inpatient admissions. Source: NHS Digital HES 2012-2018

Over the last 6 years CVD inpatients admissions in North locality have slowly increased; the locality tend to have a close split between elective and non-elective admissions

## CVD deaths

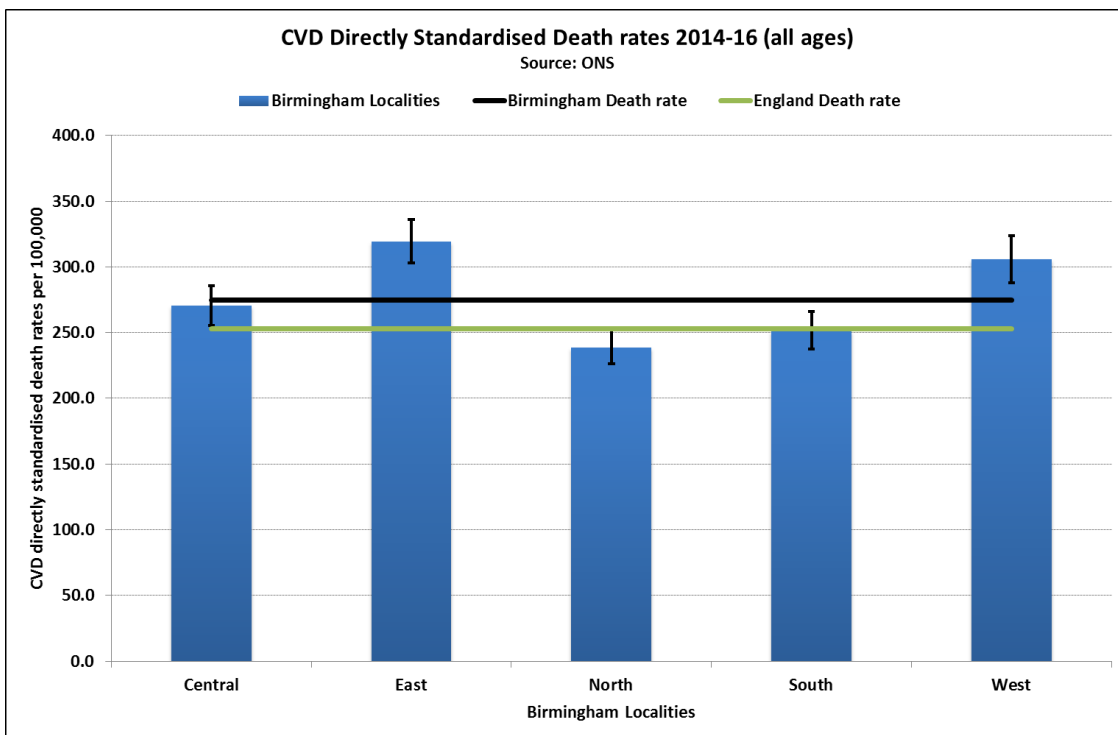


Figure 38 - Chart of CVD DSRs. Source: ONS 2014-16



Death rates are calculated per 100,000 of the population; for the 3 year period 2014-16 North locality had the lowest DSR at 238.7 per 100,000 (England 252.7, Birmingham 274.8). Further analysis highlights that the majority of deaths are in the 65+ age group. This was consistent across the whole city.

**Diabetes** – is a lifelong disease that causes a patient blood sugar levels to be too high. There are 2 main types of diabetes:

- type 1 diabetes – where the body's immune system attacks and destroys the cells that produce insulin
- type 2 diabetes – where the body doesn't produce enough insulin, or the body's cells don't react to insulin

Type 2 diabetes is far more common than type 1. In the UK, around 90% of all adults with diabetes have type 2.<sup>8</sup>

### Diabetes prevalence (age 17 and over)

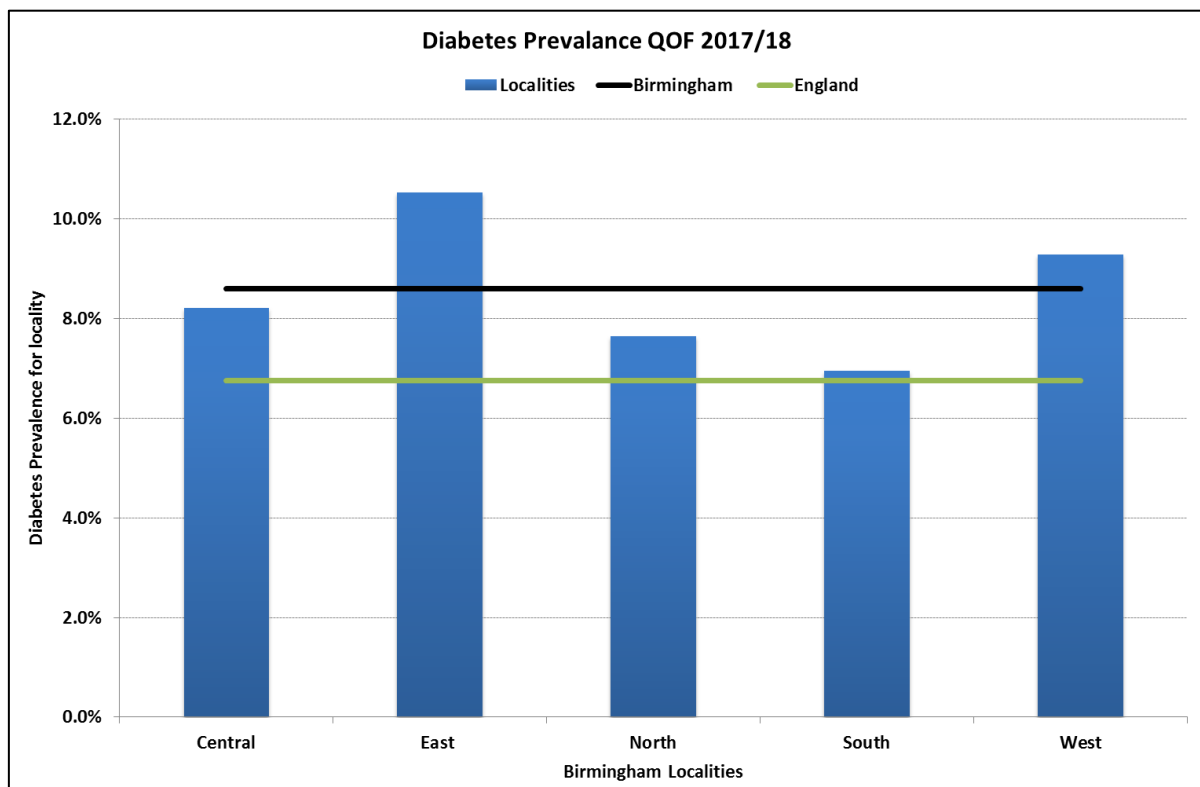


Figure 39: chart of diabetes prevalence. Source: QOF 2017/18

We are not given exact numbers by lower areas a proxy has been developed based on overall spread of populations within each practice. Using this method it can be estimated that North locality during 2017/18 had around 7.6% of its registered population on this register; this compares to 6.8% nationally, and 8.6% across Birmingham. Diabetes has one of the highest prevalence figures of all the diseases within the QOF register partly

<sup>8</sup> Sourced from NHS Choices Website 22<sup>nd</sup> August 2018

because Type 2 is associated with lifestyle but also because the disease has such a profound effect on a patient’s life once identified.

### Diabetes – hospital admissions

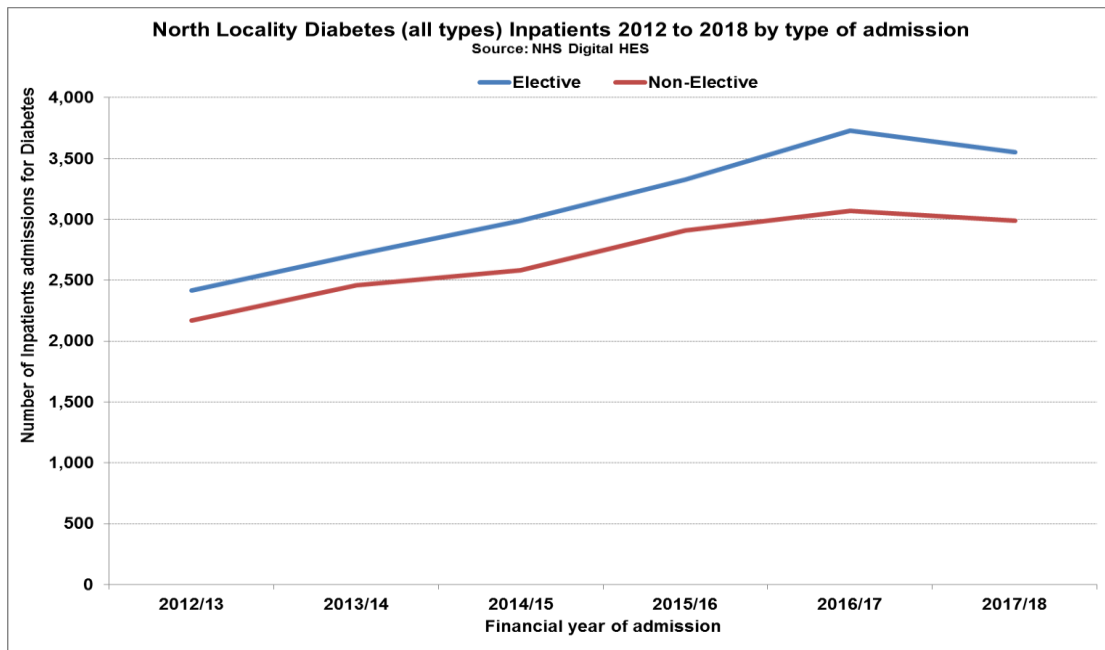


Figure 40: chart of diabetes inpatients. Source: NHS Digital HES 2012 to 2018

Admissions for all types of Diabetes has risen year on year since 2014/15 in North locality, interestingly; elective admissions are now accounting for a larger percentage of overall admissions.

### Diabetes deaths

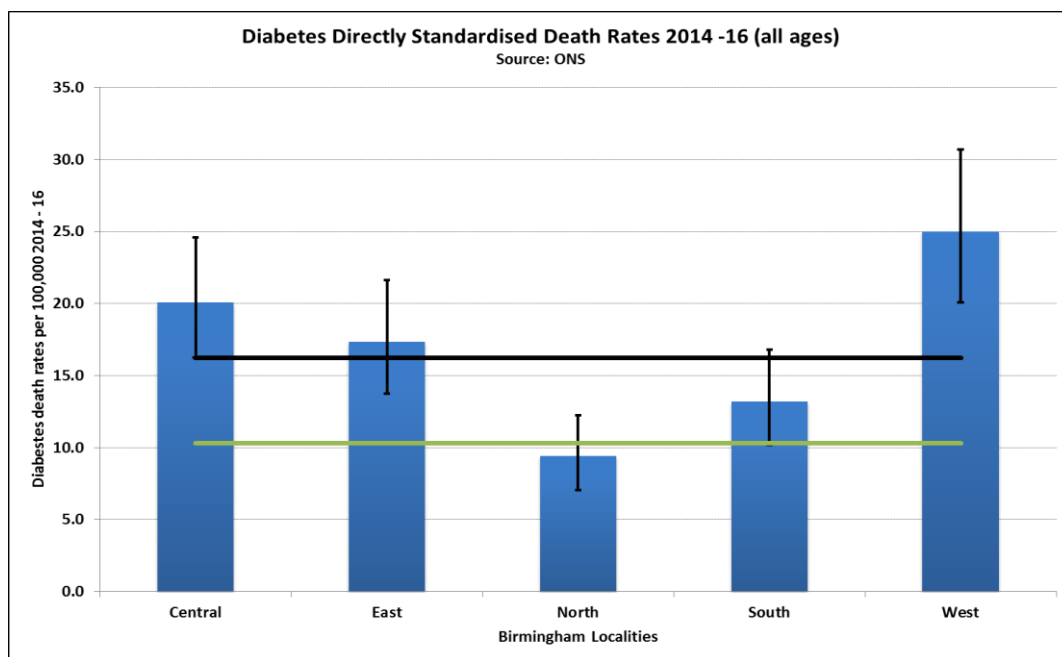


Figure 41: chart of diabetes DSRs. Source: ONS Deaths 2014/16

The death rate per 100,000 of the population for diabetes compared to other conditions remains low across Birmingham, with diabetes very rarely being recorded as the underlying cause of death; however that said North locality still has a low rate at 9.4 per 100,000 (Birmingham 16.2, England 10.3). The majority of deaths are in the 75 years and over age group and fairly evenly balanced between both genders.

**Cancer** is a condition where cells in a specific part of the body grow and reproduce uncontrollably. The cancerous cells can invade and destroy surrounding healthy tissue, including organs. Cancer sometimes begins in one part of the body before spreading to other areas. This process is known as metastasis.

More than one in three people will develop some form of cancer during their lifetime. In the UK, the four most common types of cancer are:

- breast cancer
- lung cancer
- prostate cancer
- bowel cancer

Although, there are anything up to 200 known cancers.<sup>9</sup>

### Cancer prevalence

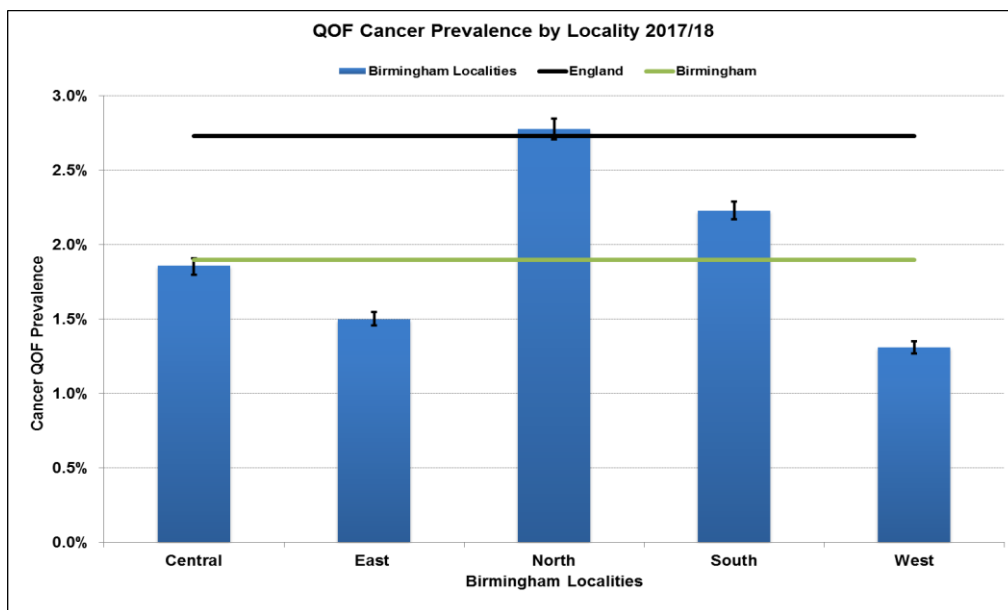


Figure 42: chart showing cancer prevalence by Birmingham localities. Source: QOF 2017/18

We are not given exact numbers by lower areas a proxy has been developed based on overall spread of populations within each practice. Using this method it can be estimated that North locality during 2017/18 had around 2.6% of its registered population on this register; this compares to 2.7% nationally, and 1.9% across Birmingham.

<sup>9</sup> Sourced from NHS Choices Website 22<sup>nd</sup> August 2018

## Cancer – hospital admissions

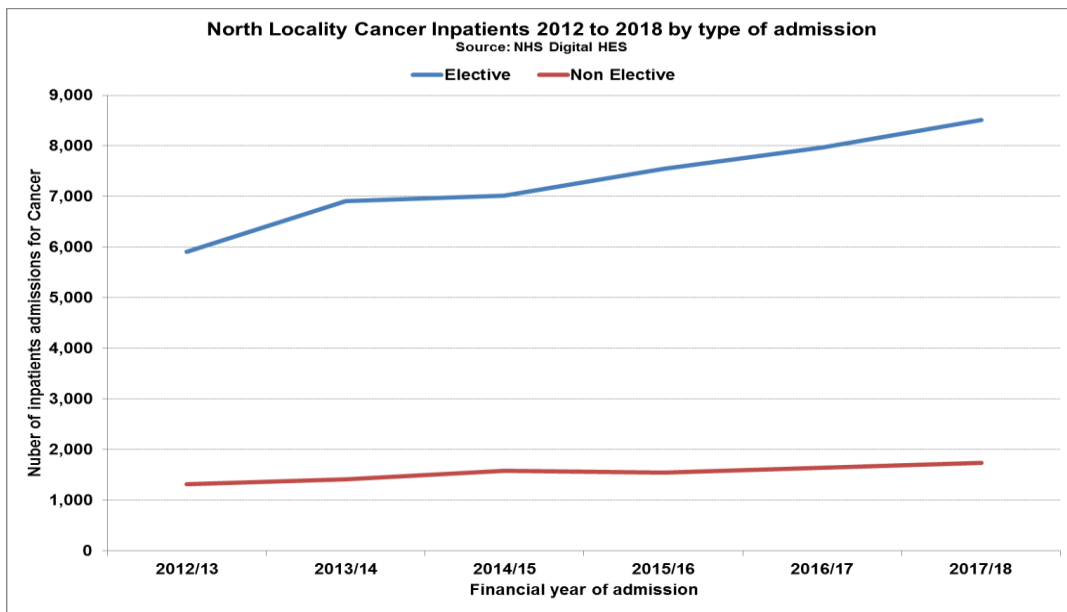


Figure 43: chart of cancer inpatients. Source: NHS Digital HES 2012-2018

The treatment of cancer requires a regular attendance as either an outpatient or inpatient facility to receive necessary drugs; as such numbers of admissions are high. 30.3% of all admissions came from residents of North locality during 2017/18. Around 83% of those were elective admissions and this is different to the other diseases mentioned within this report where most inpatients admissions are non-elective.

## Cancer deaths

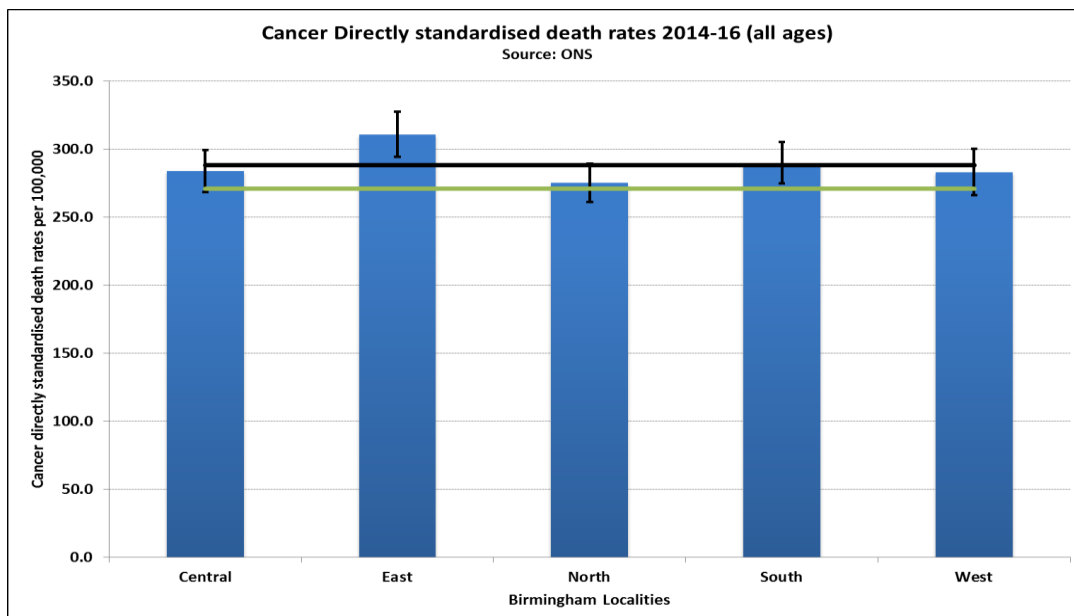


Figure 44: - chart showing cancer DSRs. Source: ONS Deaths 2014-16

During 2014/16 cancer across all ages accounted for around 6,800 (26.5%) deaths across Birmingham. For those three years the disease was the city's biggest killer. North locality

has the lowest rate of the Birmingham localities at 275.1.7 per 100,000 of the population (Birmingham 288.2, England 270.9). During the three years North locality had 1,514 deaths or 22% of all cancer deaths in Birmingham

**Respiratory** - this wide area covers those diseases that affect the respiratory areas of the body (lungs) and affect breathing. The majority of these which cause distress and require constant medical attention are mainly:

**Chronic obstructive pulmonary disease (COPD)** is the name for a group of lung conditions that cause breathing difficulties.

It includes:

- emphysema – damage to the air sacs in the lungs
- chronic bronchitis – long-term inflammation of the airways

COPD is a common condition that mainly affects middle-aged or older adults who smoke. The breathing problems tend to get gradually worse over time and can limit your normal activities, although treatment can help keep the condition under control.

**Asthma** is a common lung condition that causes occasional breathing difficulties.<sup>10</sup>

### COPD prevalence

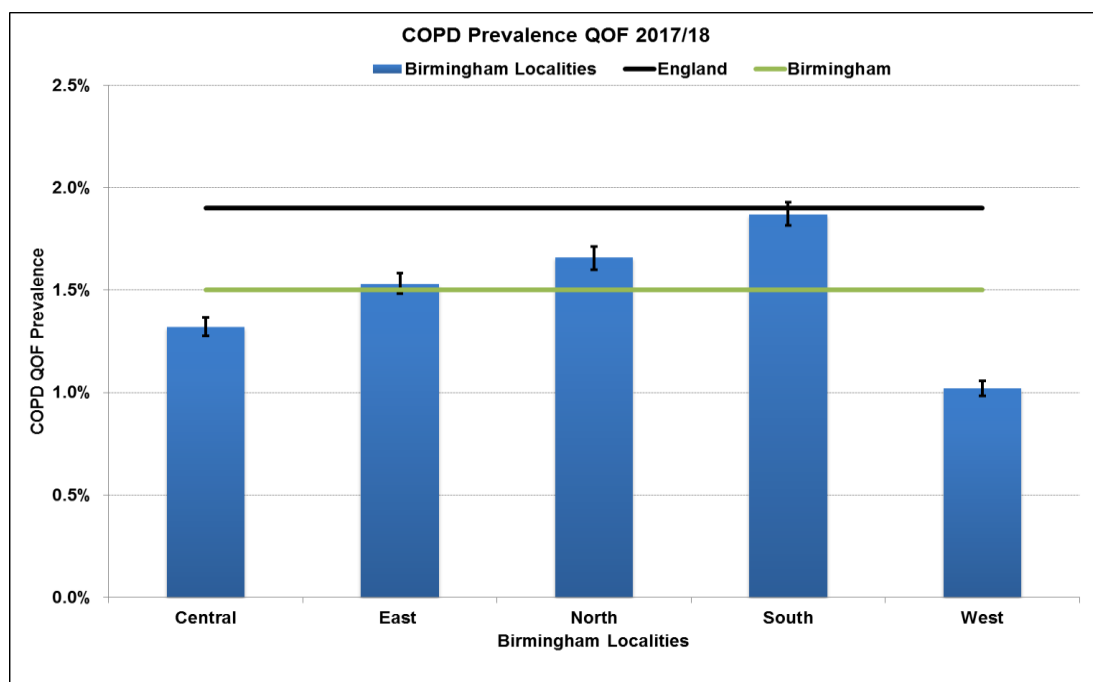


Figure 45 - COPD prevalence. Source: QOF 2017/18

It can be estimated that North locality during 2017/18 had around 1.7% of its registered population on this register; this compares to 1.9% nationally, and 1.5% across Birmingham.

<sup>10</sup> Sourced from NHS Choices website 22<sup>nd</sup> August 2018

## Asthma prevalence

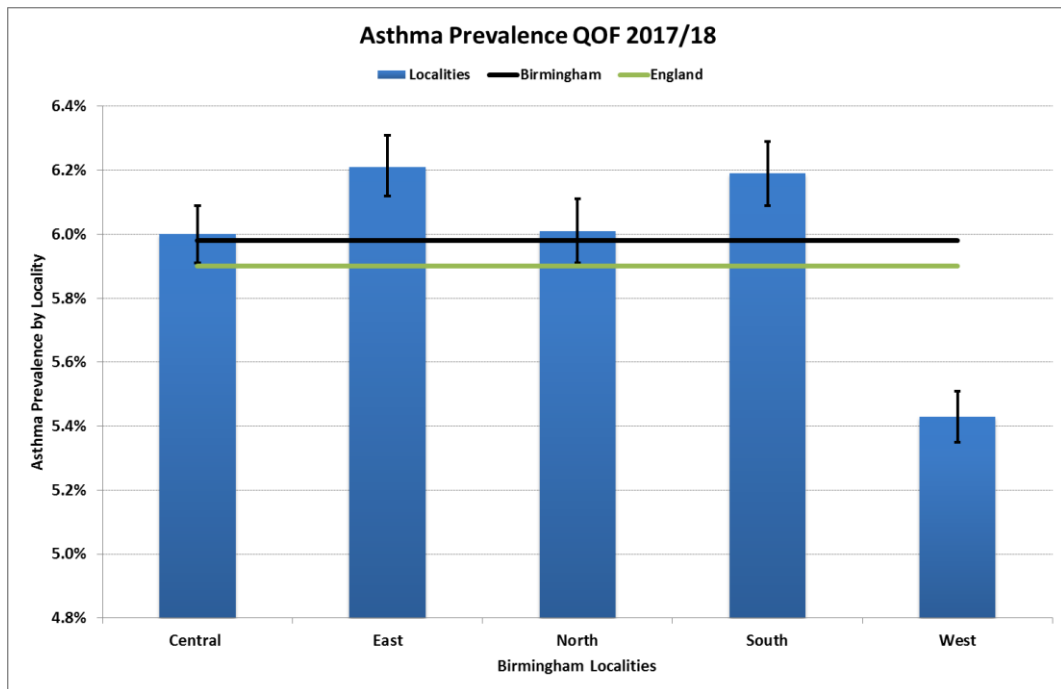


Figure 46: Asthma prevalence. Source: QOF 2017/18

It can be estimated that North locality during 2017/18 had around 6.0% of its registered population on this register; this compares to 5.9% nationally, and 6.0% across Birmingham.

## Respiratory hospital admissions

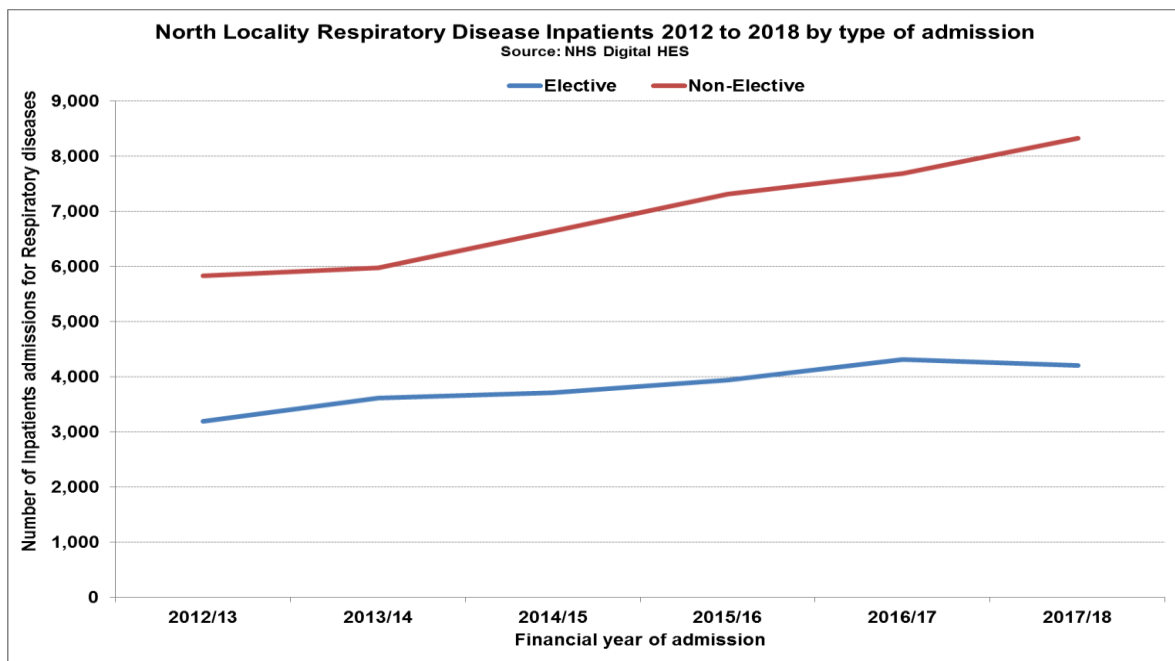


Figure 47- Respiratory inpatient admissions. Source: NHS Digital 2012-18

Since 2012/13 North locality has seen a rise in the quantity of inpatients for respiratory related conditions. Equally, consistent with the other localities they are predominantly for non-elective admissions at around 66% of all respiratory admissions during 2017/18.

## Respiratory deaths

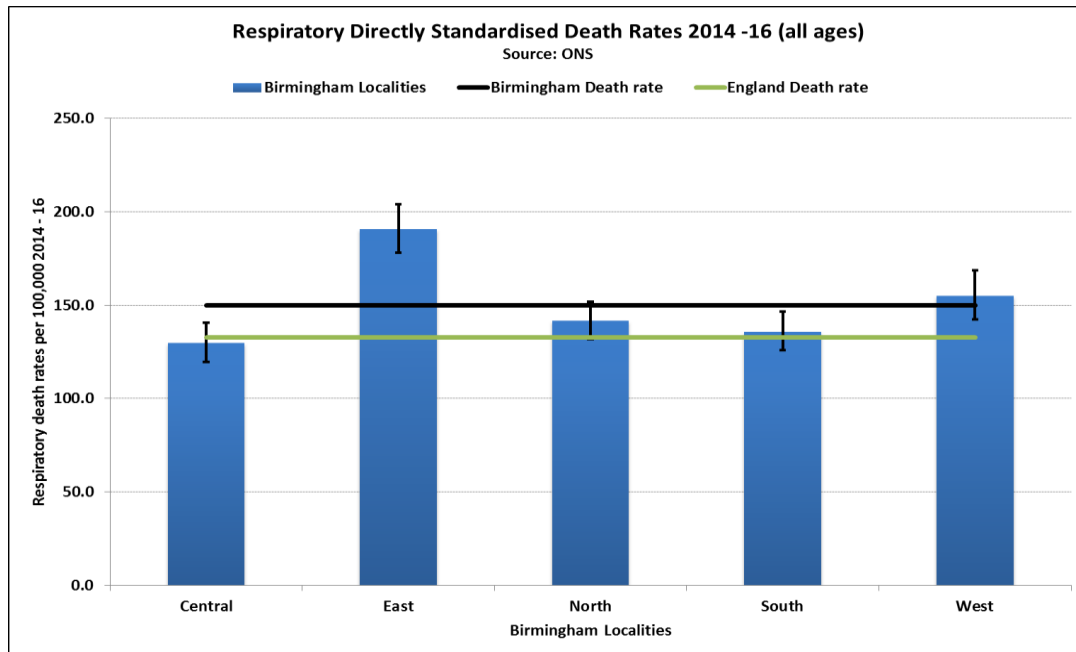


Figure 48 - Respiratory DSRs. Source: ONS Deaths 2014-16

The death rate for respiratory deaths within North locality is lower than local rates but higher than national rates at 141.5 per 100,000 population (Birmingham 150.0, England 132.8). The rates are for all ages but the majority of deaths from respiratory diseases are for those patients 75+. Many of the respiratory diseases last for the majority of your life meaning as the disease progresses your quality of life diminishes.

### For more information please contact:

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