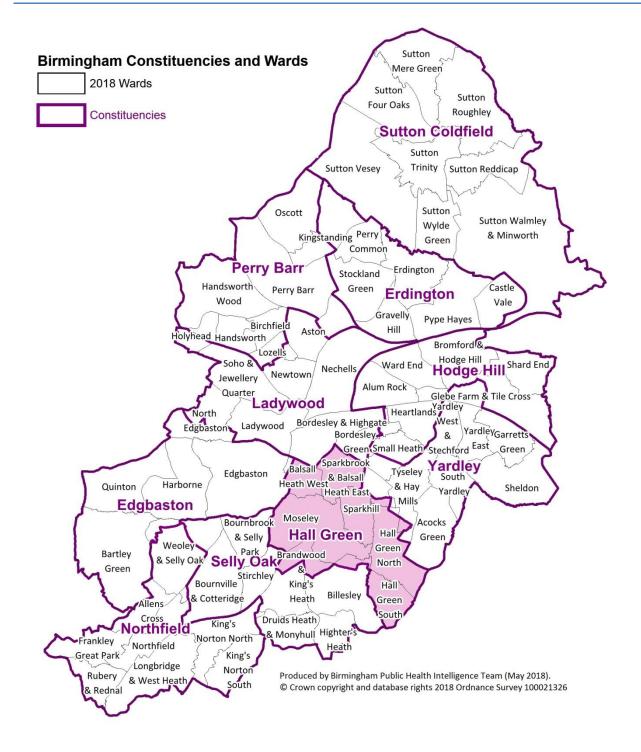


BIRMINGHAM HEALTH PROFILES: HALL GREEN CONSTITUENCY 2019



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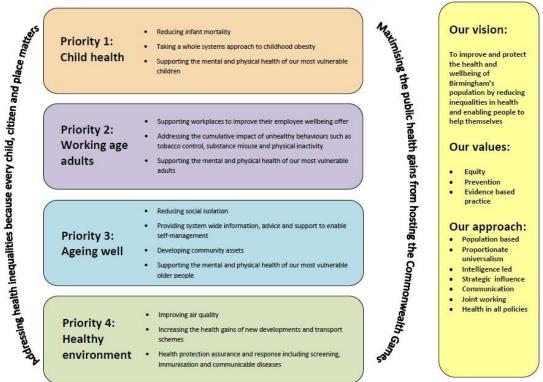
Introduction

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.



Birmingham Public Health: Priorities on a Page

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

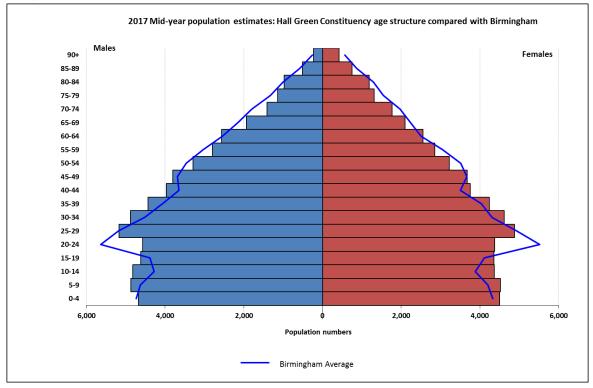


Figure 2 – Hall Green population pyramid. Source: ONS 2017MYE

It is estimated that there are approximately 120,130 people living in Hall Green constituency (ONS 2017 mid-year estimates) which is just over 10.6% of the total population of Birmingham. Of these 50.5% are male and 49.5% are female. 68% of the constituency population are under 45 years old. The 2011 Census estimated that 64.5% 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 9.4% registered at practices based in Hall Green constituency.

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).

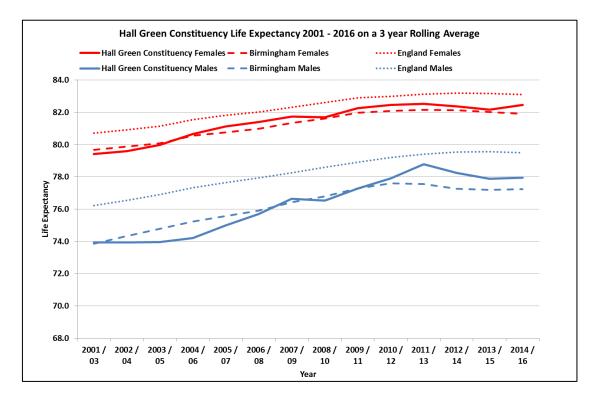


Figure 3 - Life expectancy forHall Green constituency compared to Birmingham and England. Source: ONS Deaths

Life expectancy has increased in Hall Green constituency over the last 10 years however it is higher than the Birmingham average but lower than the 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.

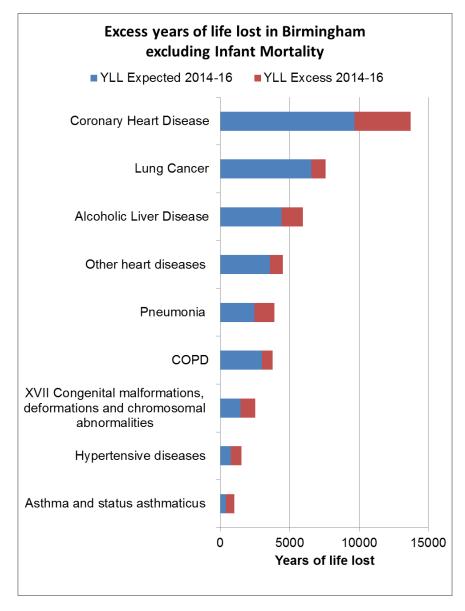


Figure 4 - Excess years of life lost in Birmingham excluding infant mortality. Source: ONS Deaths

For the three main conditions contributing to early death in Birmingham, we have calculated the excess years of life lost for each constituency. In Hall Green constituency lung cancer is the main cause of early death with almost 1,282 excess years of life lost between 2014-2016.

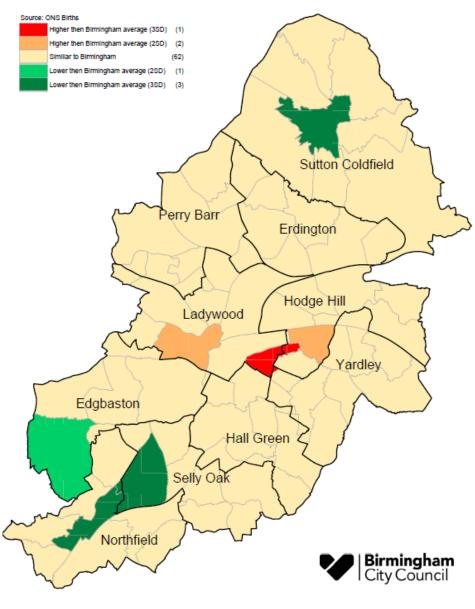
Table 1 - Excess	vears of life lost for main c	conditions by constituency	/. Source: ONS Deaths 2014-16
TUDIC I EXCCOS	years of me lost for main o	conditions by constituency	

	Excess Years Life Lost 2014-16			
Constituency	Coronary	1	Alcoholic	
in Central Constituency	Heart Disease	Lung Cancer	Liver Disease	
Hall Green	353	1,282	653	
Selly Oak	582	1,414	839	

Child Health

Infant mortality

Birmingham has the one of the worst infant mortality rates of all the local authorities in the country – 7.9 per 1,000 live births (England 3.9) (2014-2016). The rate for Hall Green constituency is higher than for Birmingham at 8.0 per 1,000 live births.



Birmingham Ward Level Infant Mortality Rate 2014-2016

Produced by Birmingham Public Health Intelligence Team (2019) @Crown copyright and database rights 2019 Ordnance Survey 100021326

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%)

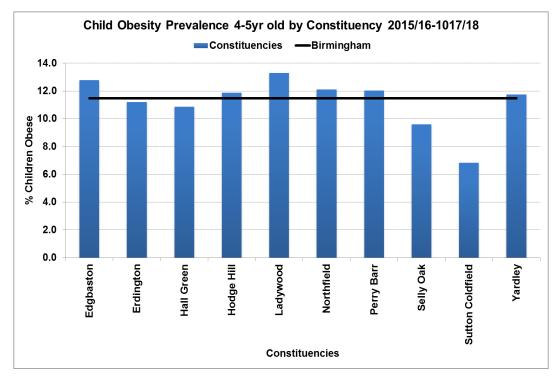


Figure 6 - Childhood obesity 4-5 year olds by constituency. Source NCMP 2015/16-2017/18

The prevalence of obesity in Hall Green constituency is lower than the Birmingham average for 4-5 year olds (10.9%) and for 10-11 year olds (25.3%).

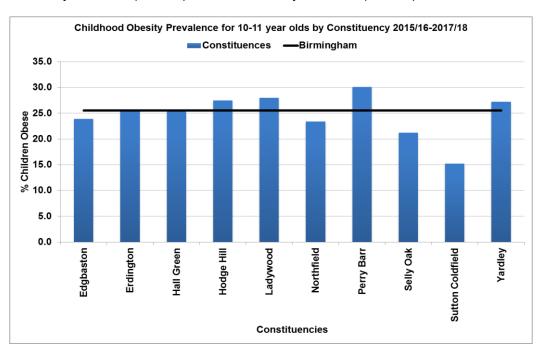


Figure 7- Childhood obesity 10-11 year olds by constituency. Source NCMP 201516-2017/18

Educational attainment

Figure 8 shows the percentage of children achieving a good level of development during their foundation year. Achievement in Hall Green constituency is similar to the Birmingham average but lower than the England average.

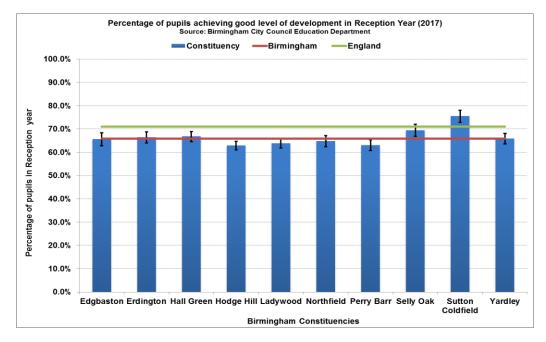


Figure 8 – Reception Year 2016/17 Attainment Percentage

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

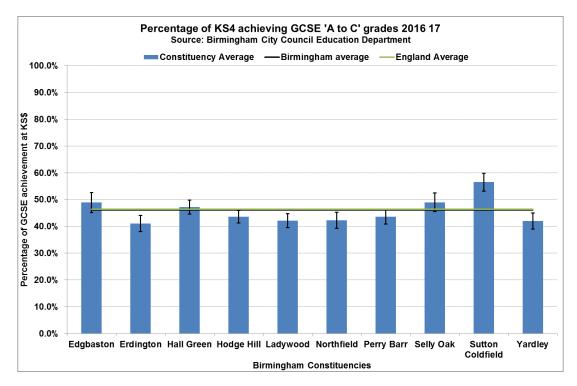
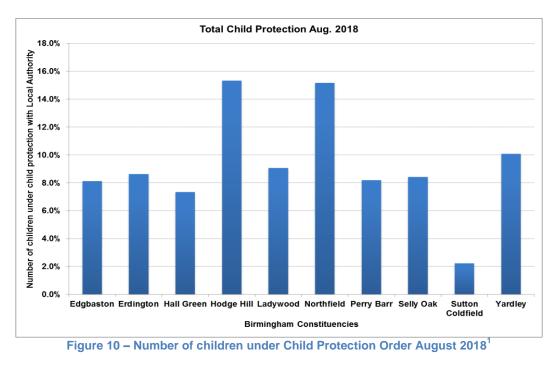
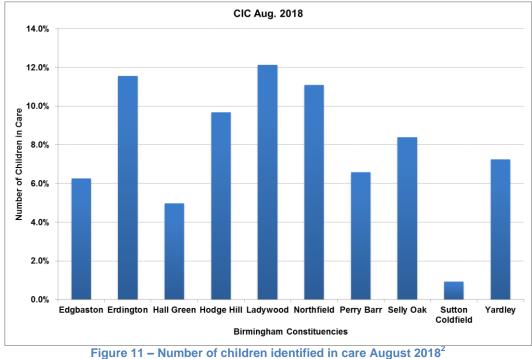


Figure 9 – KS4 GCSE result Grades A to C 2016/17 Attainment Percentage

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.





Children in care

¹ 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).³ 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 Hall Green constituency Sparkbrook has low scores on the index.

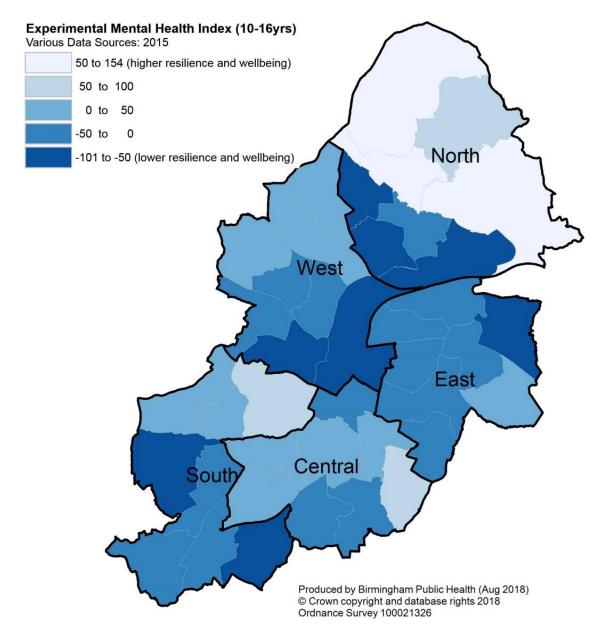


Figure 12 : Experimental Mental Health Index (10-16yrs). Source: HeadStart Strategy 2015

² Sourced from Birmingham CYPF data strategy team
³ HeadStart Strategy Stage 3 2015 available online

https://www.childrenssociety.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 number of these deaths for each Birmingham constituency 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. Hall Green constituency total was 1,680 deaths which is the second lowest total across the ten constituencies that make up Birmingham.

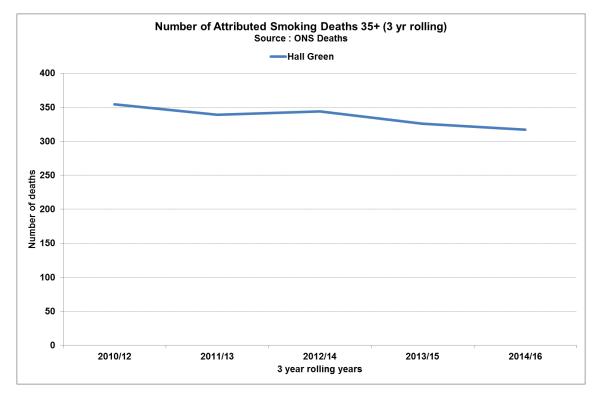
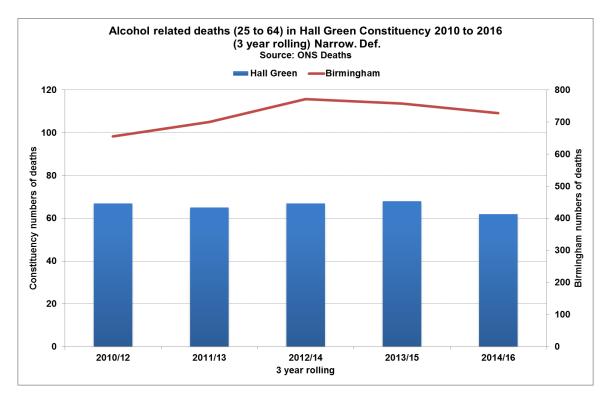


Figure 13- Attributed smoking deaths. Source: ONS Death

Alcohol

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

Numbers of deaths from this cause have decreased year on year since 2010 within Hall Green constituency. Hall Green constituency accounted for 9% of all alcohol related deaths across Birmingham during the last six years since 2010.





Hospital admission rates for alcohol related admissions rates in 2017/18 for Hall Green Constituency between the ages of 25-64 are one of the lowest in Birmingham. The chart below shows that they were below the Birmingham average and similar to the national average.

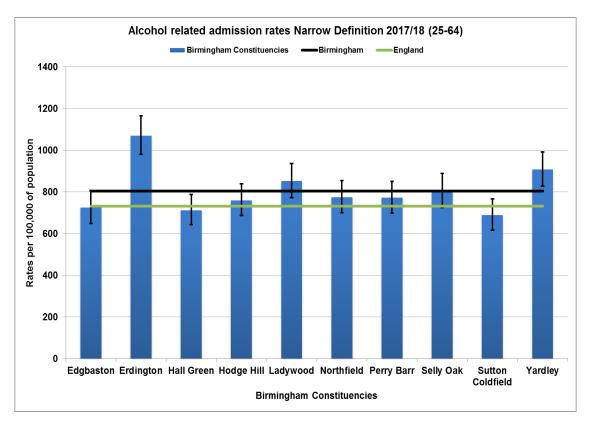


Figure 15- Chart of alcohol admission rates. Source: NHS Digital 2017/18

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 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 constituency that are specifically related to drugs (not including alcohol). Intentional and unintentional deaths are included.

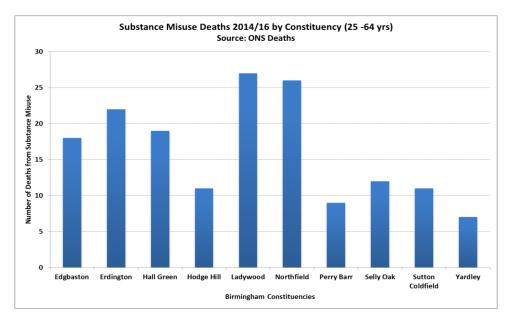


Figure 16 – Number of deaths from drugs. Source: ONS Deaths

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

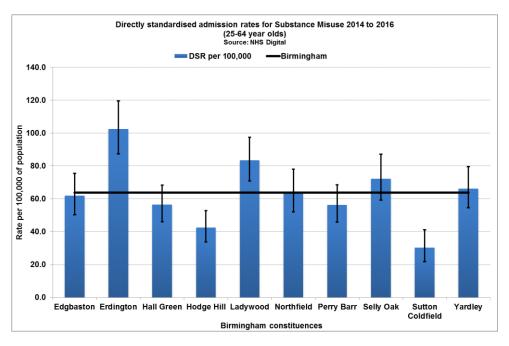


Figure 17 - Chart of DSRs for substance misuse. Source: NHS Digital HES 2013-2018

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 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).

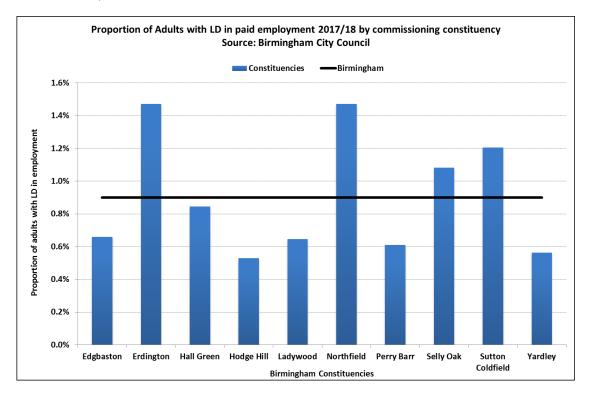


Figure 18 - Adults with LD in paid employment by constituency. Source: Adults Social Care data 2017/18

Older Adults

Social isolation

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



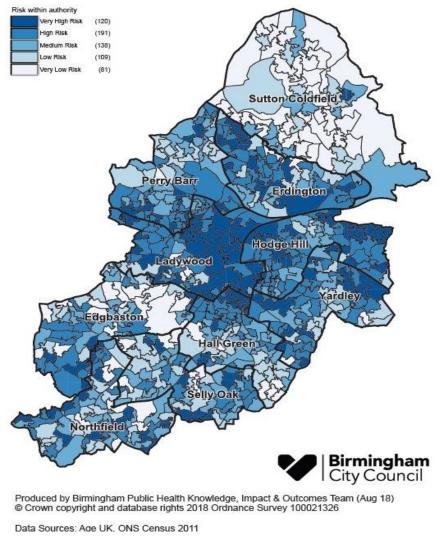


Figure 19: Loneliness Index age 65+ by Birmingham LSOA. Source: Age UK

Hall Green constituency contains a medium number of areas where there is a very high risk of loneliness amongst older adults.

⁴ 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

Pension Claimants Rate per 1,000 Persons (All Ages)

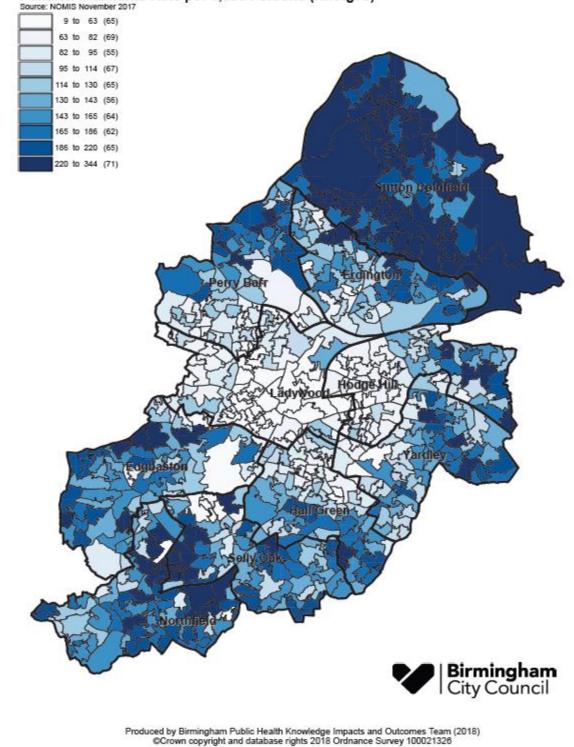
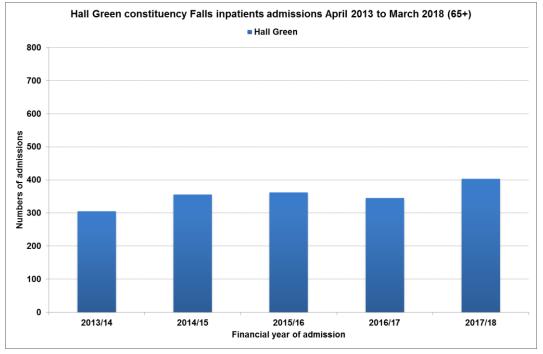


Figure 20: Pension Claimants per 1,000 2017. Source: NOMIS

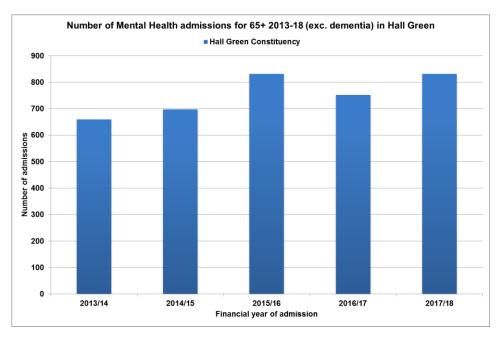
Hall Green contains several areas who were claiming a pension during 2017 indicating there are large pockets of elderly residents and pockets of those with disabilities located in this area.

Admissions for falls





Between April 2013 and March 2018 there were approximately of 23,350 admissions across Birmingham for falls related conditions. 7.6% of these where in Hall Green





Between April 2013 and March 2018 there were approximately of 45,000 admissions across Birmingham for mental health conditions excluding dementia. 8.4% of these admissions were from Hall Green constituency,

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 Hall Green constituency.

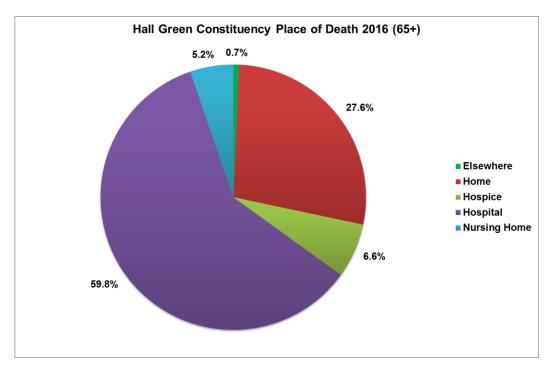


Figure 23: Percentage of Place of Death 2016 Source: ONS Deaths

During 2016 there were a total of 6,776 deaths in Birmingham in the 65+ age group. Of these 572 are Hall Green residents. 59.8% of deaths in Hall Green constituency for this age group took place in hospital (54.6% for Birmingham). Nationally, the main measurement relating to EOLC are those deaths taking place at home or in a hospice. Hall Green had 27.6% of deaths occurring at home (Birmingham 32.2%) and 6.6% in a hospice (Birmingham 6.8%). This indicates that the fewer people aged over 65 die at home and a hospice in Hall Green than across the rest of Birmingham.

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 Hall Green constituency are amongst the most deprived in the country.

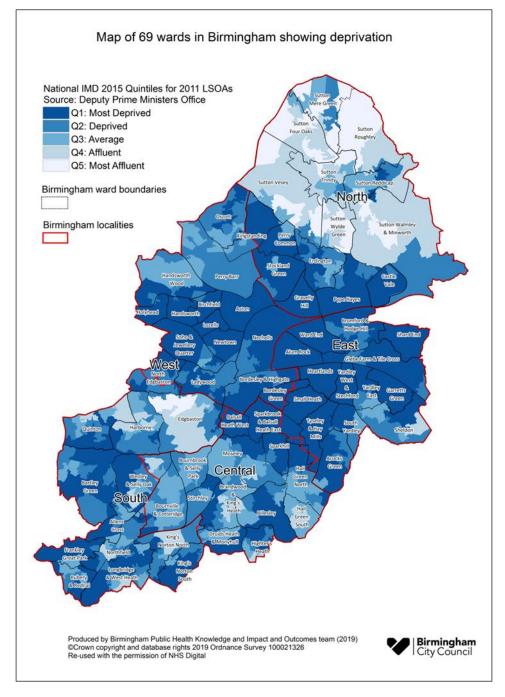


Figure 24 - deprivation map by Birmingham ward. Source: IMD 2015

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.

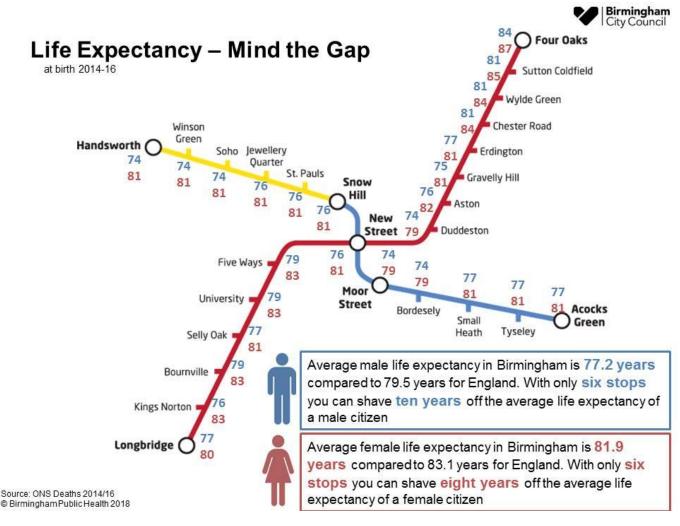


Figure 25 - Life Expectancy Inequalities across Birmingham Source: ONS Births / Deaths

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.

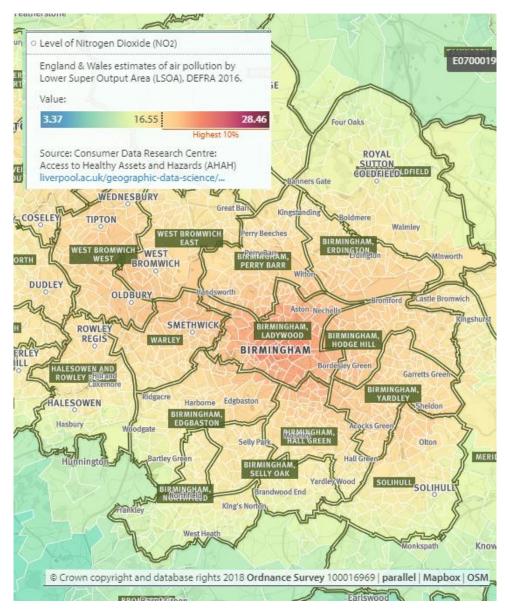


Figure 26: Map showing Nitrogen Dioxide levels. Source: DEFRA 2016

These two maps have been created using Public Health England's SHAPE tool⁵ and show Nitrogen Dioxide NO₂ and PM10 Particulate Matter levels for Birmingham.

⁵ Strategic Heath Asset Planning and Evaluation <u>https://shapeatlas.net/</u>

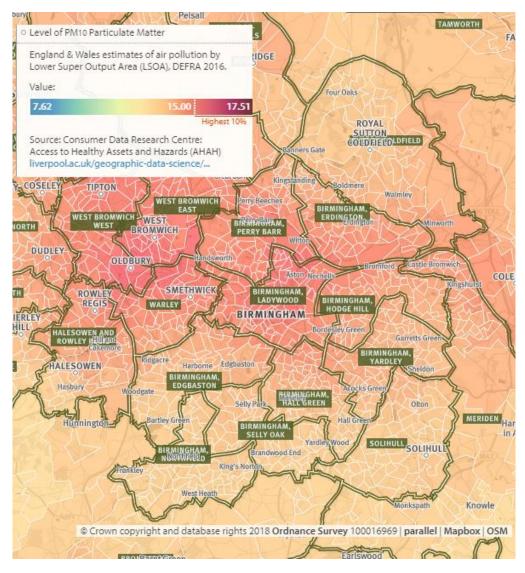
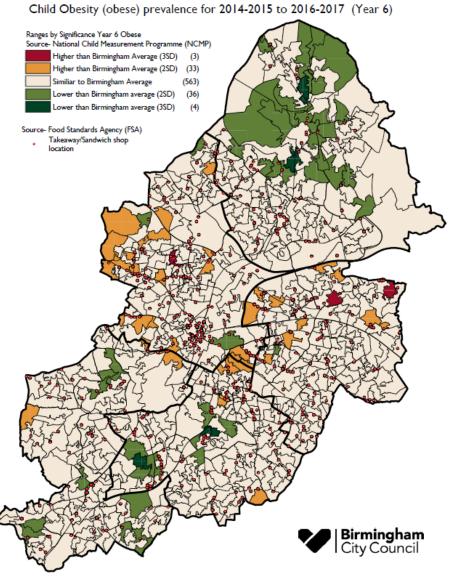


Figure 27: Particulate Matter levels. Source: DEFRA 2016

Hall Green constituency has some medium levels of both NO₂ and PM10 which will contribute to the experience of 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.⁶ 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. Hall Green constituency has similar numbers of takeaways and sandwich shops to the rest of Birmingham.



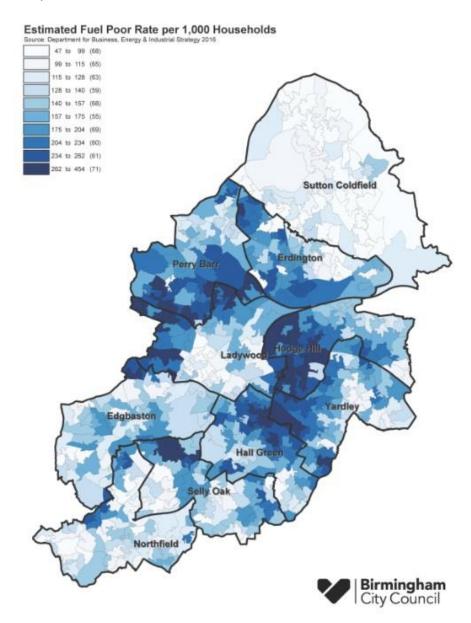
Produced by Birmingham Public Health Intelligence Team (2017) ©Crown copyright and database rights 2017 Ordnance Survey 100021326

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

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

Fuel Poverty

Fuel poverty is defined as households with a low income but with high energy costs. The map below shows that a proportion of the population in Hall Green constituency may be struggling to pay high energy costs with low incomes. Living in a poorly heated home is strongly linked to poor health outcomes.



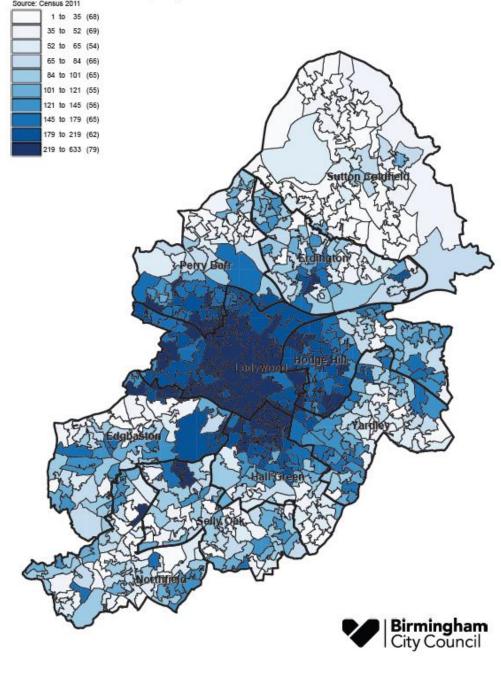
Produced by Birmingham Public Health Knowledge Impacts and Outcomes Team (2018) @Crown copyright and database rights 2018 Ordnance Survey 100021326

Figure 29: 2016 Fuel Poverty by LSOA within constituency

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.



Over Occupation Rate per 1,000 Households Source: Census 2011

Produced by Birmingham Public Health Knowledge Impacts and Outcomes Team (2018) ©Crown copyright and database rights 2018 Ordnance Survey 100021326

Figure 30: Overcrowding across Birmingham 2011 Census

A&E Hospital Attendances

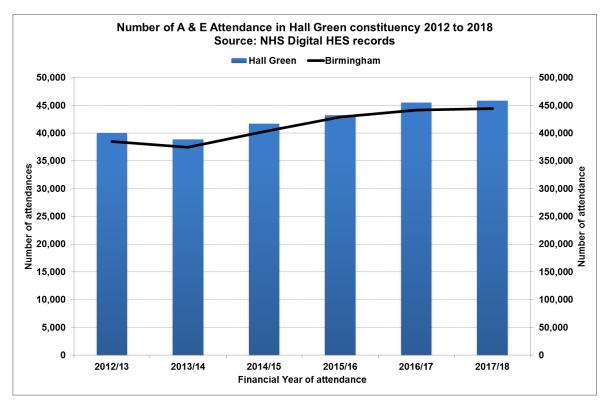


Figure 31 - A&E attendances by constituency 2012-2018

A&E attendances have steadily increased across Birmingham over the last five years. Attendances within Hall Green have also risen but have recently reached a plateau.

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.⁷

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.

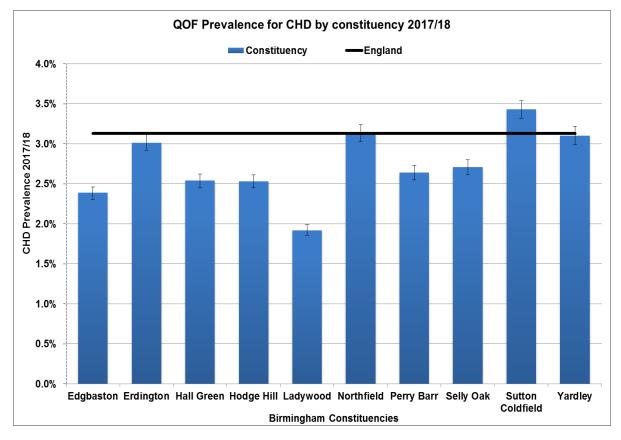


Figure 32 - CHD prevalence. Source: QOF 2017-18

A proxy has been developed to calculate constituency prevalence based on the overall spread of populations within each practice. Using this method it can be estimated around 2.5% of the population of Hall Green constituency is on the CHD register; this compares to 3.1% nationally, and 2.7% across Birmingham.

⁷ Sourced from NHS Choices Website 22nd 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.

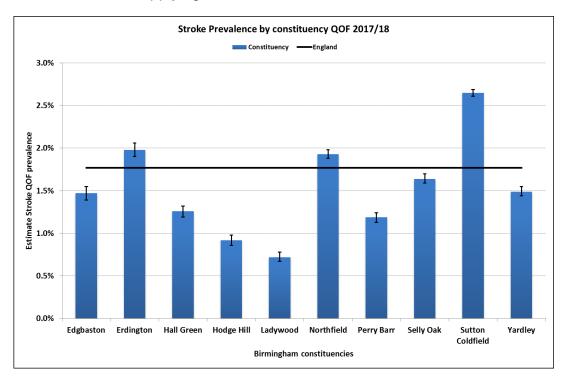


Figure 33- Stroke prevalence. Source: QOF 2017-18

It is estimated that Hall Green constituency has around 1.3% of its registered population on the stroke register; this compares to 1.8% nationally, and 1.4% across Birmingham.

Hypertension

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

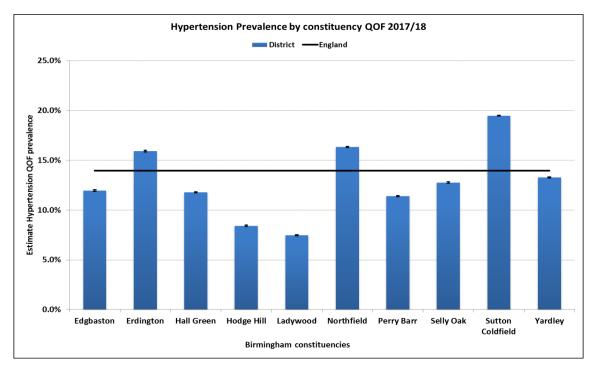


Figure 34- Hypertension prevalence. Source: QOF 2017-18

It is estimated that Hall Green constituency has around 11.8% 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.

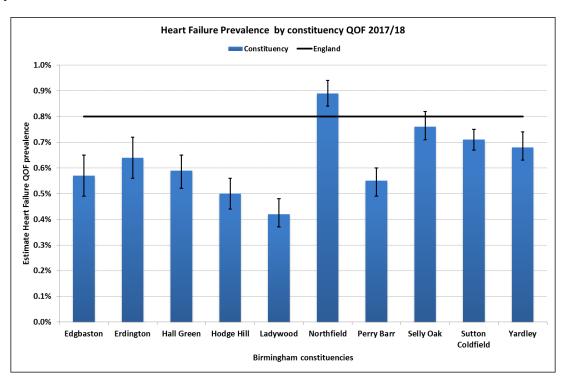
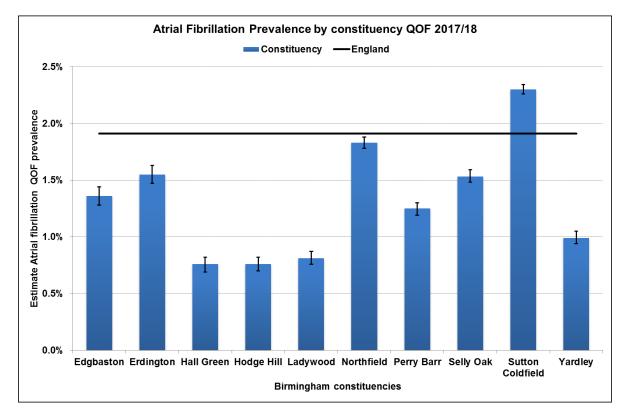


Figure 35 - Heart Failure prevalence. Source: QOF 2017-18

It is estimated that Hall Green constituency has around 0.6% 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 Hall Green constituency has around 0.8% of its registered population on this register; this compares to 1.9% nationally, and 1.3% across Birmingham.

CVD - hospital inpatient admissions

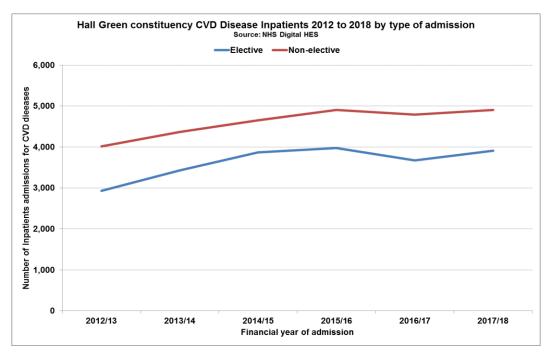


Figure 37 - CVD inpatient admissions. Source: NHS Digital HES 2012-2018

Over the last 6 years CVD inpatients admissions in Hall Green have slowly increased but recently plateaued the constituency has a similar number between elective and non-elective admissions

CVD deaths

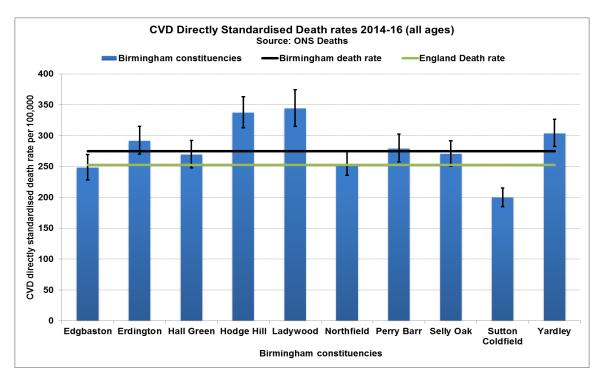


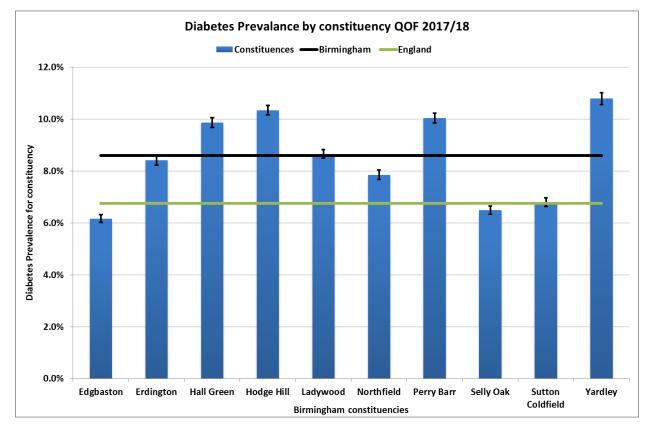
Figure 38 - Chart of CVD DSRs. Source: ONS 2014-16

Death rates are calculated per 100,000 of the population; for the 3 year period 2014-16 Hall Green's DSR at 269.2 per 100,000 is higher than both England 252.7 but lower than 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 2.⁸



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 Hall Green constituency during 2017/18 had around 9.9% of its registered population on this register; this compares to 6.8% nationally, and 8.6% across Birmingham.

⁸ Sourced from NHS Choices Website 22nd August 2018



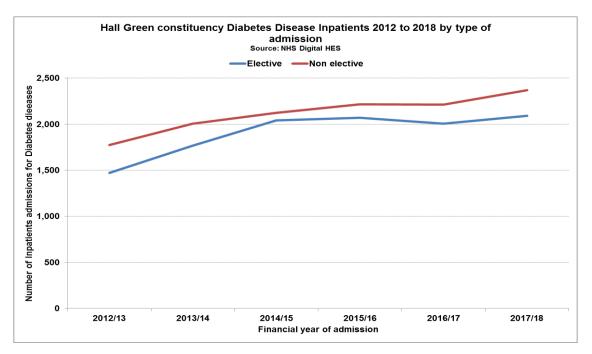


Figure 40: chart of diabetes inpatients. Source: NHS Digital HES 2012 to 2018

Admissions for all types of Diabetes has risen year on year since 2012/13 in Hall Green constituency. Interestingly; the gap between elective and non-elective admissions would appear to be widening.



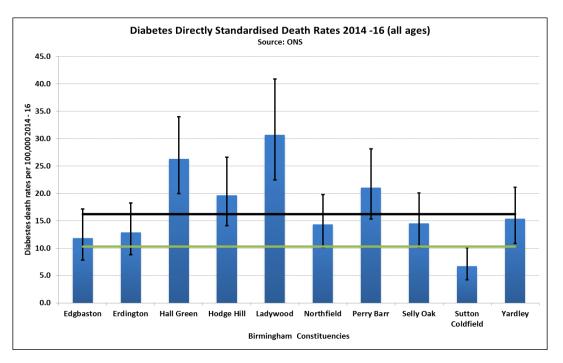


Figure 41: chart of diabetes DSRs. Source: ONS Deaths 2014/16

The death rate for diabetes compared to other conditions remains low across Birmingham, with diabetes very rarely being recorded as the underlying cause of death; Hall Green

constituency has a rate at 26.3 per 100,000 (Birmingham 16.2, England 10.3). The majority of deaths are in the 75+ age group and split evenly 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.⁹

Cancer prevalence

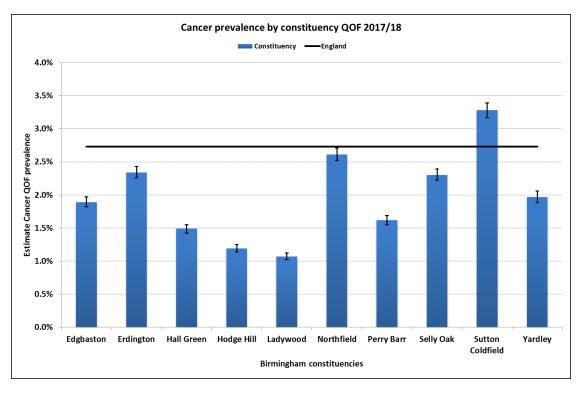


Figure 42: chart showing cancer prevalence by Birmingham constituencies. Source: QOF 2017/18

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 Hall Green constituency during 2017/18 had around 1.5% of its registered population on this register; this compares to 2.7% nationally, and 1.9% across Birmingham.

⁹ Sourced from NHS Choices Website 22nd August 2018

Cancer -hospital admissions

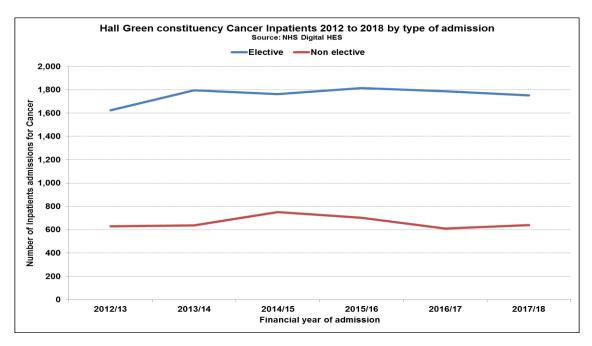
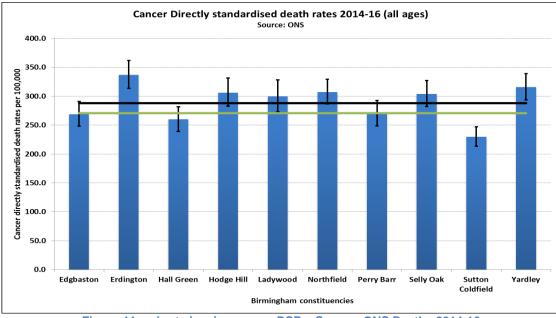


Figure 43: chart of cancer inpatients. Source: NHS Digital HES 2012-2018

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. 7.1% of all admissions came from residents of Hall Green constituency during 2017/18. Around 73% of those were elective admissions.



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. Hall Green constituency has a rate at 259.9 per 100,000 of the population (Birmingham 288.2,

England 270.9) which is lower the Birmingham rate. During the three years Hall Green constituency had 769 deaths or 8.8% 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.¹⁰

COPD prevalence

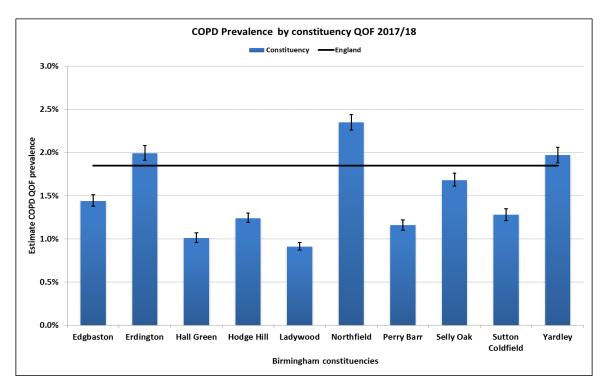


Figure 45 - COPD prevalence. Source: QOF 2017/18

It can be estimated that Hall Green constituency during 2017/18 had around 1.0% of its registered population on this register; this compares to 1.9% nationally, and 1.5% across Birmingham.

¹⁰ Sourced from NHS Choices website 22nd August 2018

Asthma prevalence

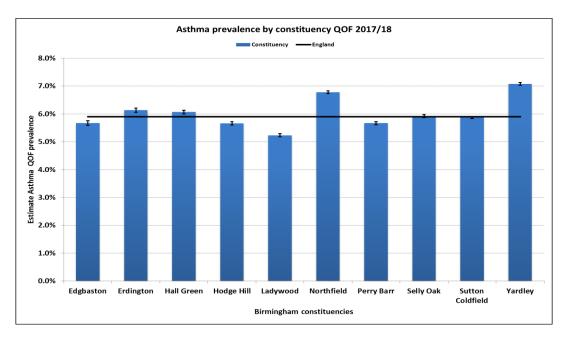


Figure 46: Asthma prevalence. Source: QOF 2017/18

It can be estimated that Hall Green constituency during 2017/18 had around 6.1% of its registered population on this register; this compares to 5.9% nationally, and 6.0% across Birmingham.

Respiratory hospital admissions

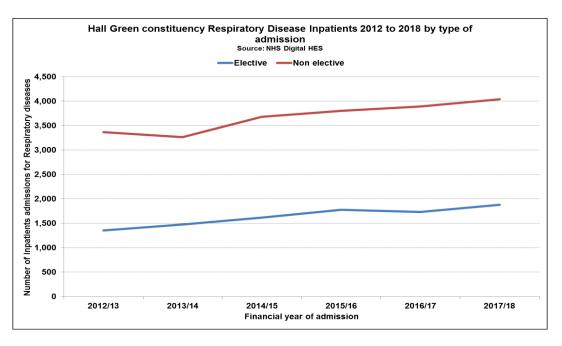


Figure 47- Respiratory inpatient admissions. Source: NHS Digital 2012-18

Since 2012/13 Hall Green constituency has seen a rise in the numbers of inpatients for respiratory related conditions. Equally, consistent with the other constituencies they are

predominantly for non-elective admissions at approximately 68% of all respiratory admissions during 2017/18.

Respiratory deaths

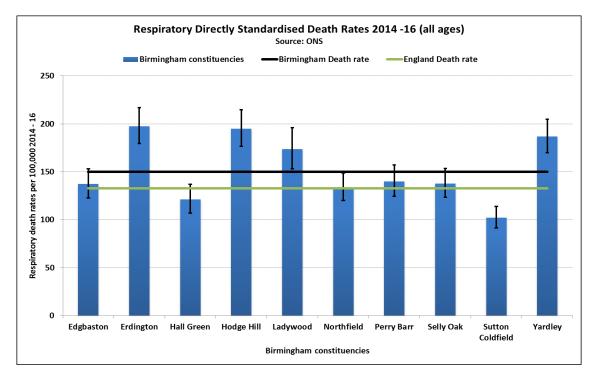


Figure 48 - Respiratory DSRs. Source: ONS Deaths 2014-16

The death rate for respiratory diseases within Hall Green constituency is lower than local rate at 121.3 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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February 2019 V0.3