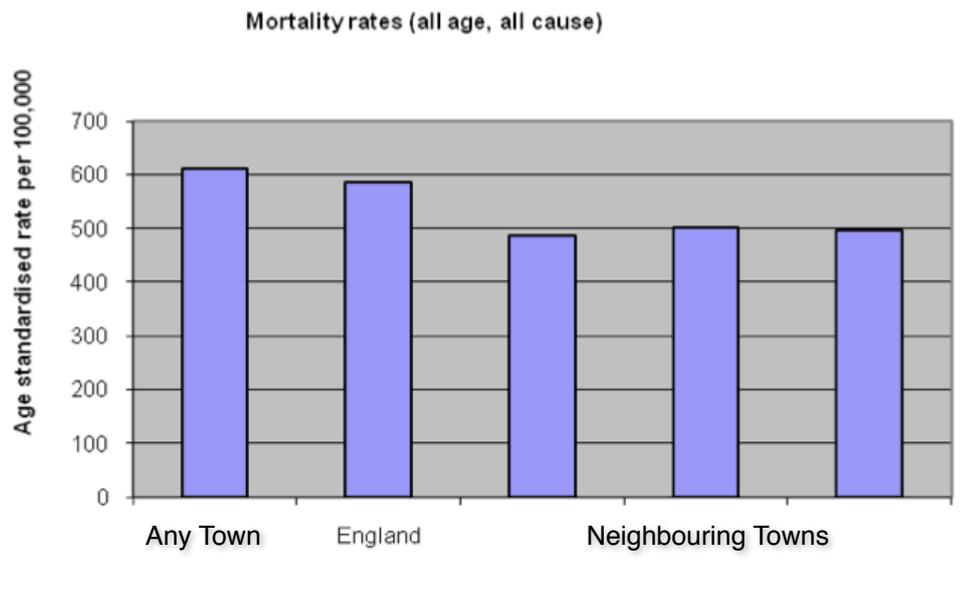


Case Study information to build a business case

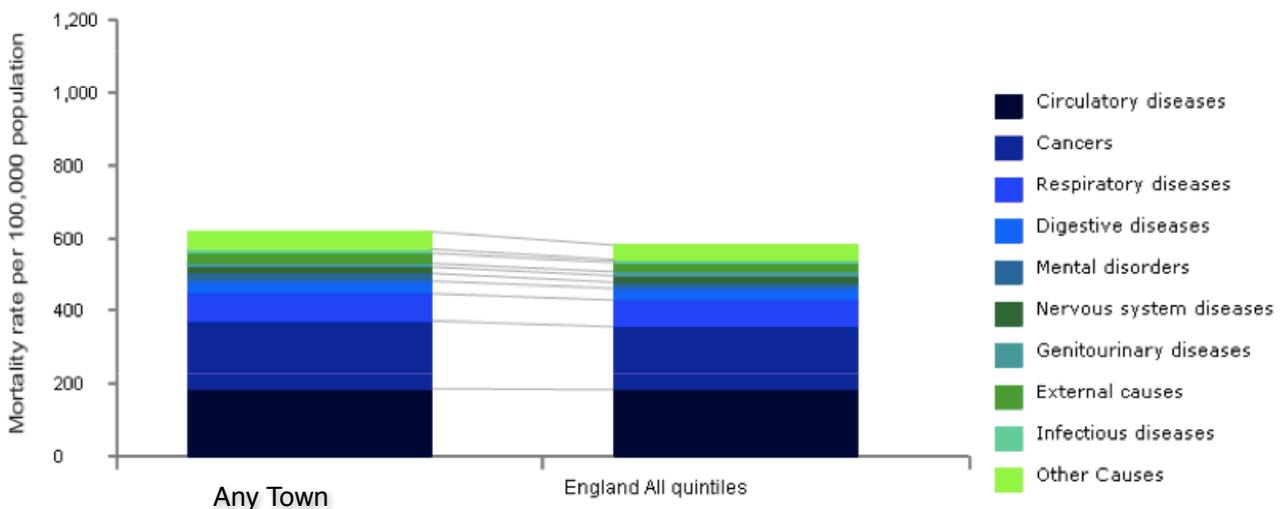
Using this JSNA document you are required to build a business case to support your proposal to improve the health and wellbeing of Any Town (population 430,000 people).

Mortality

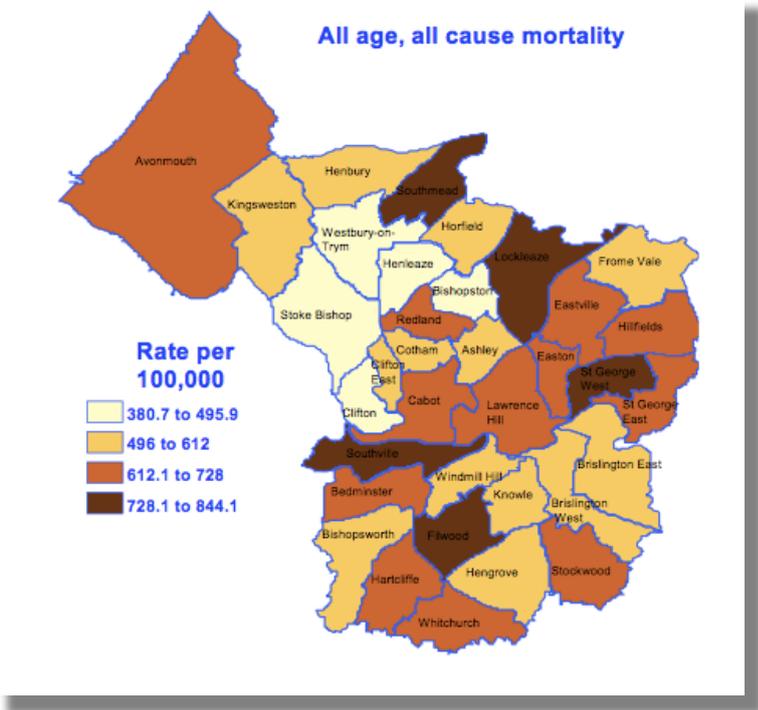
Overall mortality in Any Town is 610 per 100,000 people, which is higher than the England average (587) and neighbouring towns. However Any Town has been consistently reducing broadly in line with the national picture.



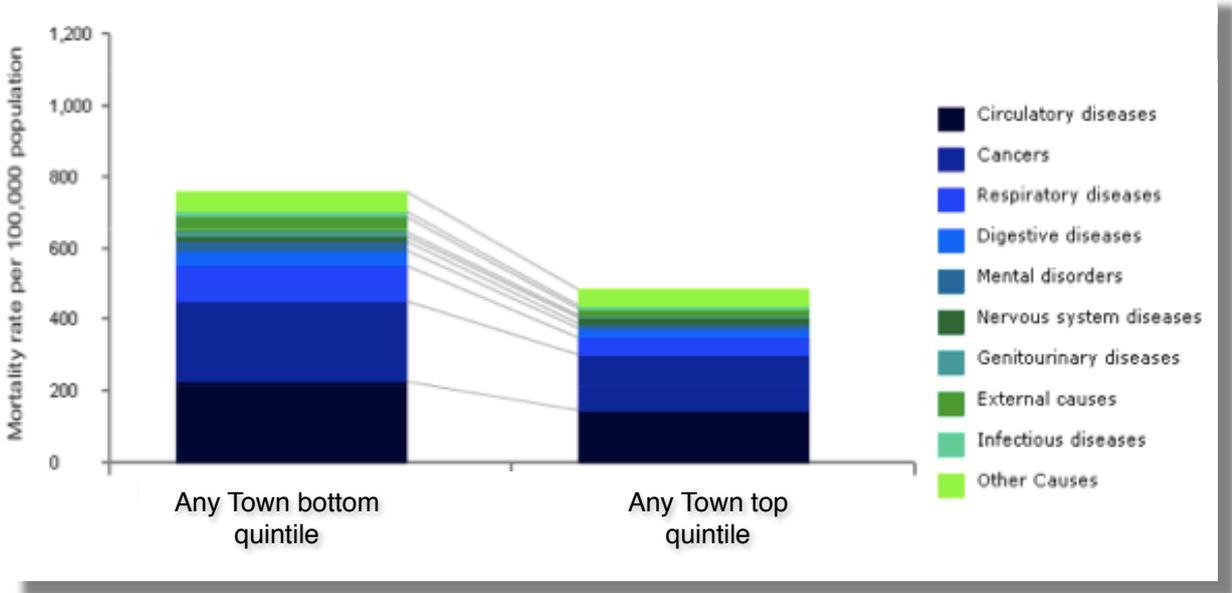
Overall, the causes of mortality are broadly similar with the national picture, however, the mortality rate for cancer is higher.



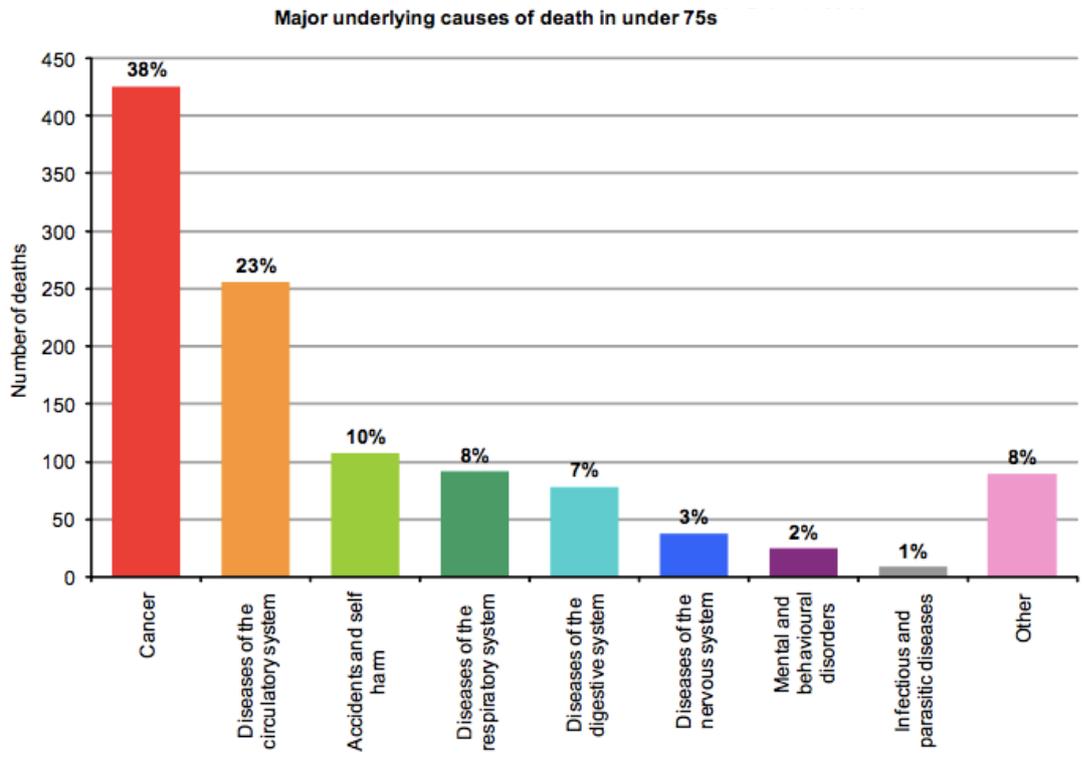
Mortality varies across the wards in Any Town from 380 (per 100,000) to 844.



Mortality causes vary significantly between the bottom and top quintiles. Circulatory disease and cancers are substantially higher for people living in the most deprived areas (bottom quintile, or 20% of most deprived) compared to those in the top quintile.

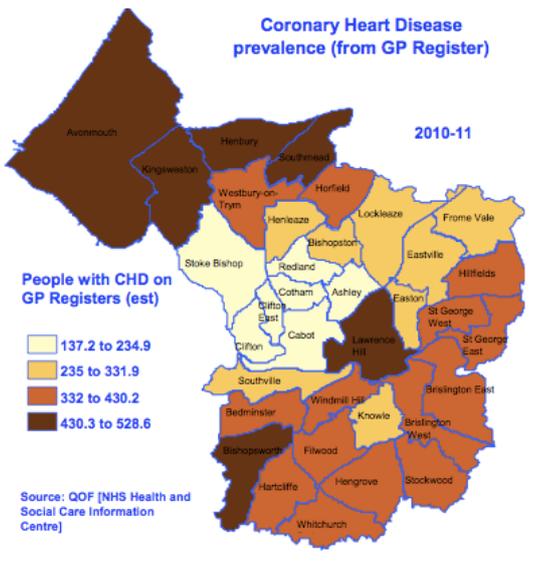


Looking at the causes of premature deaths in Any Town, cancers are the major cause, along with circulatory diseases (heart disease and stroke) accounting for just over two thirds of premature deaths in Any Town.



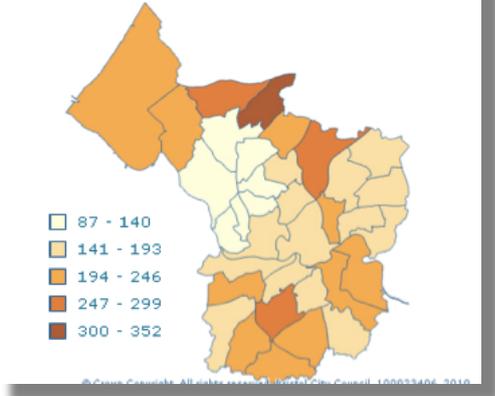
Coronary Heart Disease (CHD)

Prevalence across Any Town wards highlights the number of people living with CHD.

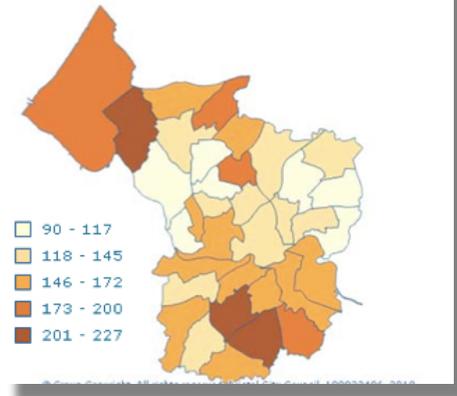


Elective CHD admissions were significantly lower in the north east of Any Town, however the north, north west and south were significantly higher. Non elective (emergency) admissions were however higher in the north east, along with the north and south. The area in the north is approximately double for non elective versus elective.

Hospital admissions due to Coronary Heart Disease
Unplanned (emergency) admissions

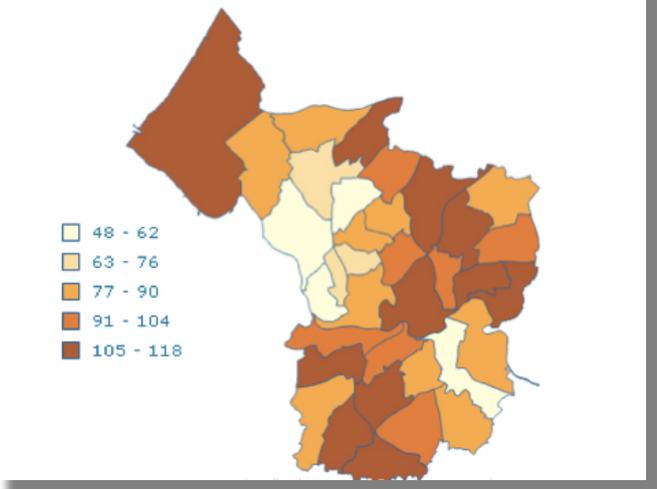


0) Directly age-standardised rate per 100,000 population
Planned (elective) admissions



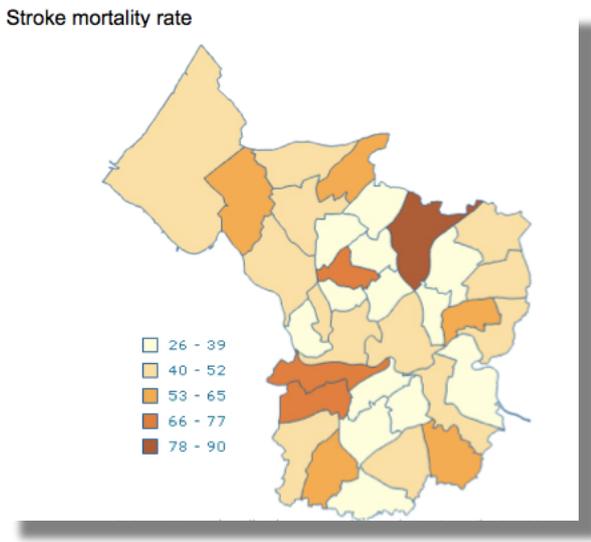
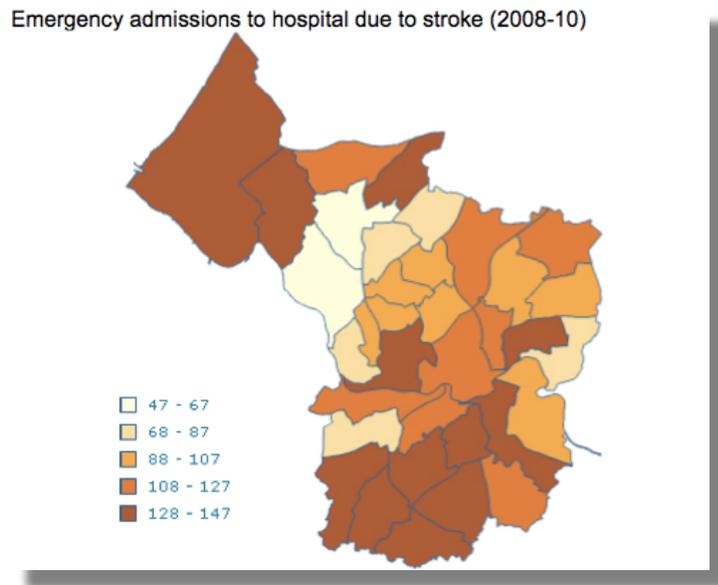
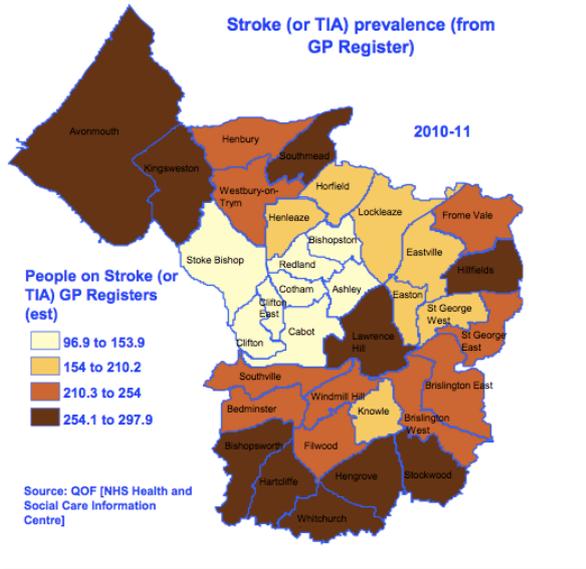
Mortality rates from CHD is the single most common cause of death in England and Wales (15% of all deaths, all ages).

Premature mortality rate from Coronary Heart Disease



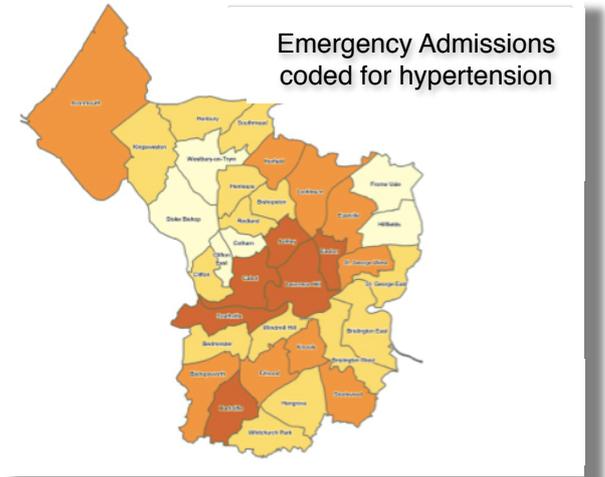
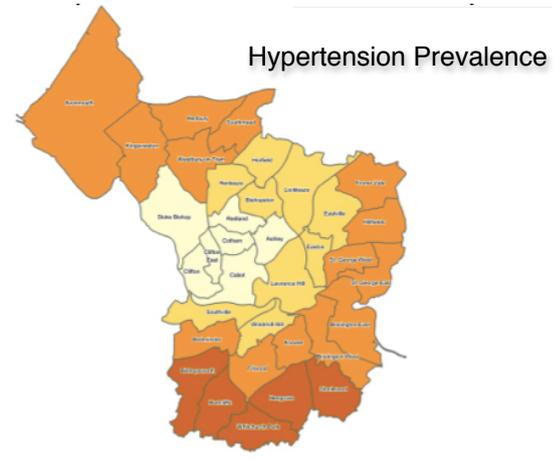
Stroke

Prevalence data for Any Town wards, gives the map below for the number of people who have experienced a stroke (or Transient Ischaemic Attack, TIA). The emergency admissions data for strokes in Any Town is higher than in England, however there is a marked disparity between the north west and south of Any Town, compared with the rest of the town.



Hypertension

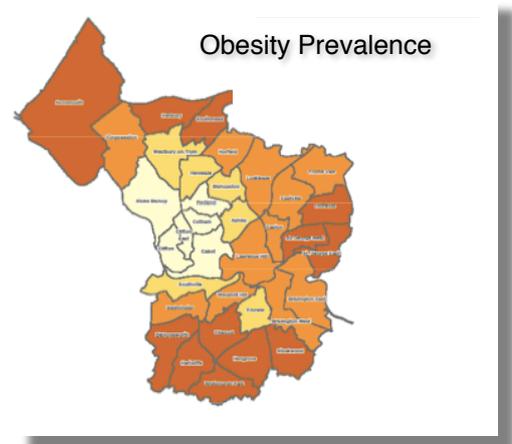
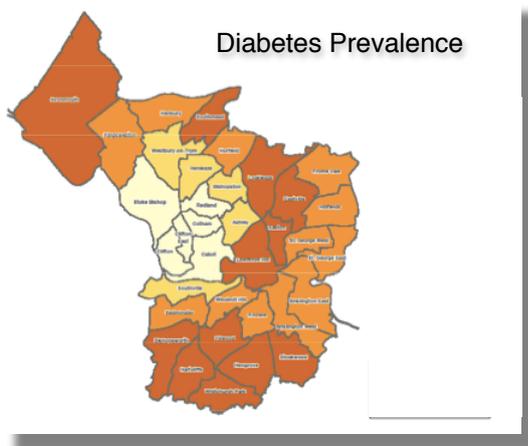
Prevalence rates for hypertension across Any Town are 11% however this varies between wards from being below 6% in the centre, to over 15% in the south and around 13% in the north west and east. This is compared to a national prevalence of 13.5%. Registers may underestimate the actual prevalence due to many people remaining undiagnosed. Models estimate that 21% of the population of Any Town have hypertension suggesting that nearly half remain undiagnosed.



Hospital admissions rate which have been coded as hypertension as the primary cause does not map well with the prevalence map above, with a high admission in the central areas.

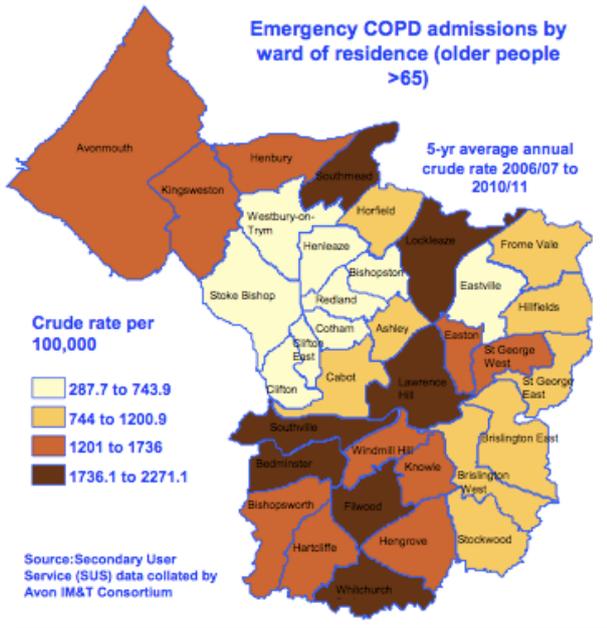
Diabetes and obesity

Diabetes and obesity are increasing in prevalence across Any Town, however there are areas of higher concern. The north west, north, east and south have the highest prevalence for both diabetes and obesity.

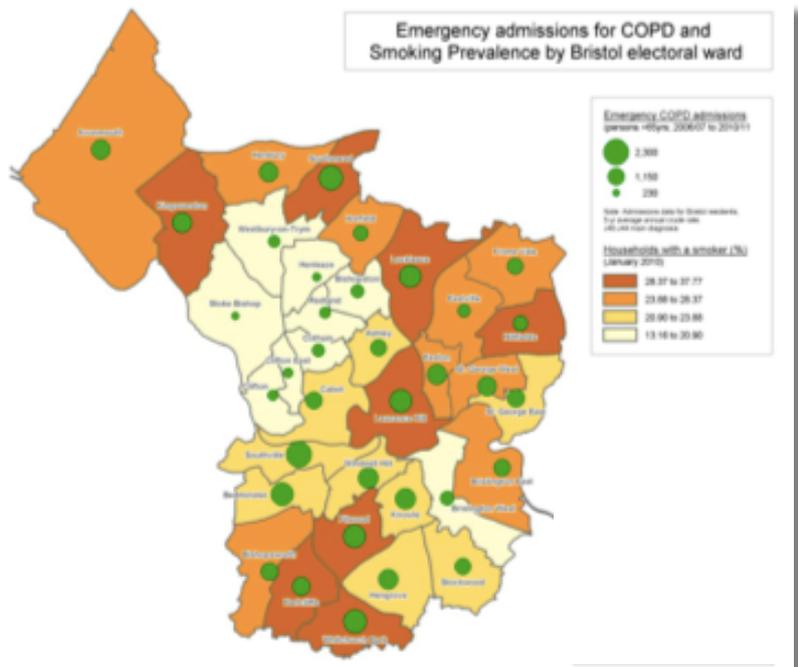


COPD

The overall emergency admission rate to hospital for COPD (> 65 years old) was 1,228 per 100,000 people, with the highest rate in the north, central and south. There is a clear link between deprivation and COPD emergency hospital admissions (1,883 compared to 402 per 100,000 residents). Household smoking rates in these highest areas is > 30% in contrast to the lowest COPD rates where household smoking is <20%



Emergency COPD admissions (size of green dot) correlates with % of smoking households.



Statistics

Tariff per non elective spell

COPD hospital admission - £1,920 - £3,000

Stroke - £11,000

Diabetes - £2,000

Acute Kidney Injury - £1,500 - £6,000

CHD - £10,000 - £17,000