



**Our NHS, Our future – Supplementary Slide packs  
for CPG workshops**

# **Children's Services**

**Produced by Yorkshire and Humber  
Public Health Observatory  
October 2007**



## **PHO support to groups**

- Collate any regional or local evidence for group
- Produce Y&H specific analysis for each area
- Additional focus on
  - health inequalities
  - primary care
  - future planning



# YHPHO DH Evidence pack

- Background
- Facts and Figures
- Progress against NSF developmental standards
- Good practice and supporting evidence
  - Health and wellbeing
  - Vulnerable children
  - Children who are ill
- Questions / issues



## Progress against NSF developmental standards - main points

- Sub-optimal services, with sub-optimal outcomes in some areas - Trust ratings, diabetes care, cancer care, CAMHS waits, infant mortality, children in care
- Variation in level of leadership – Acute care, local structures
- Variations in level of service integration – Children's Trusts, Children's Centres, GP engagement, clinical networks
- Poor transitional services – childrens to adult services



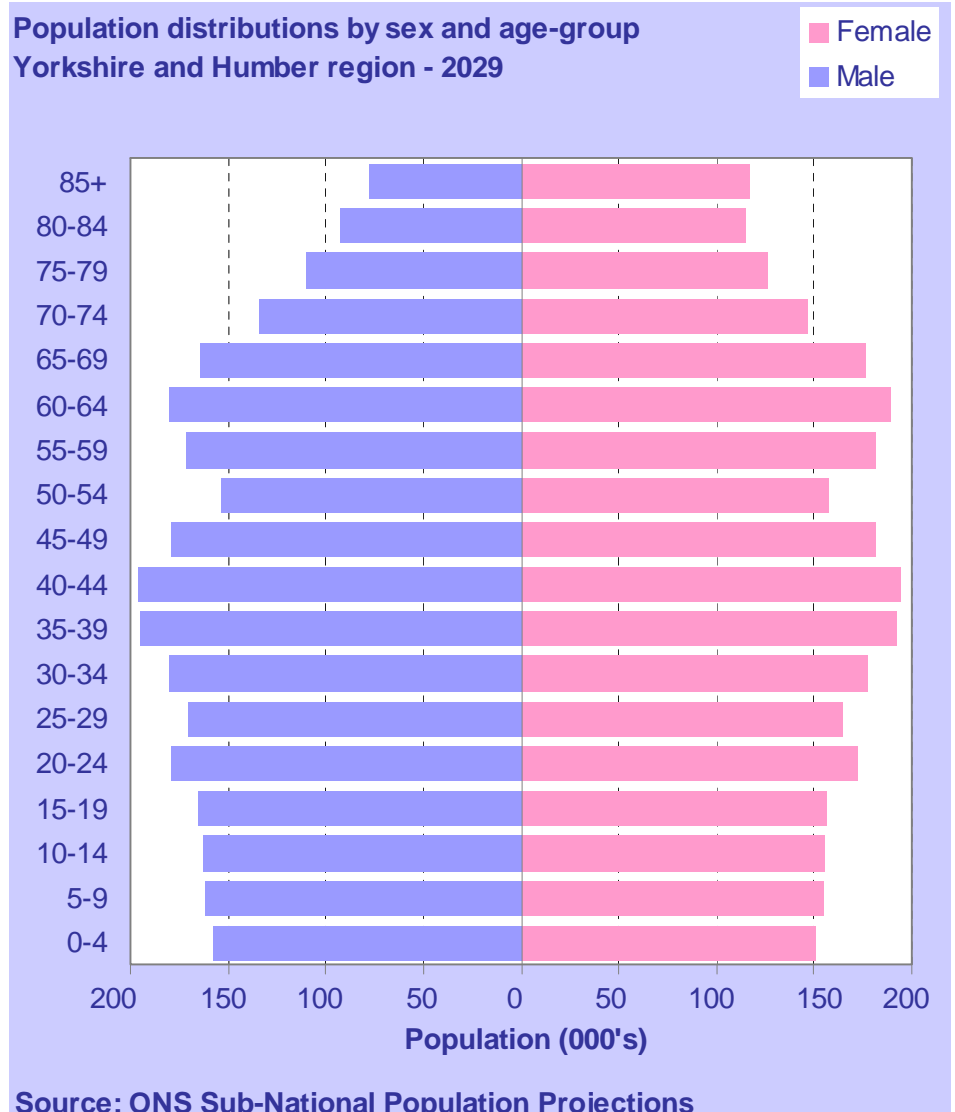
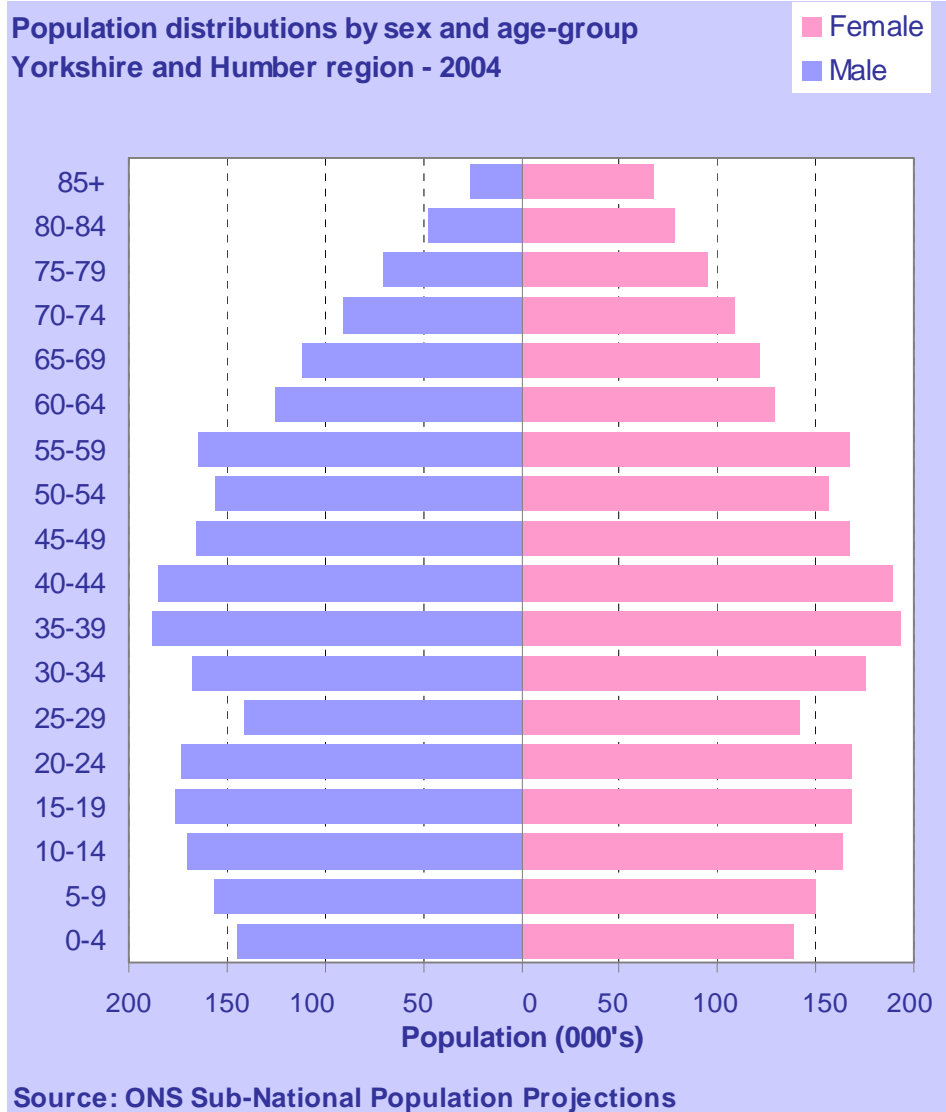
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# **Some headline figures for the region**



# Demographic changes

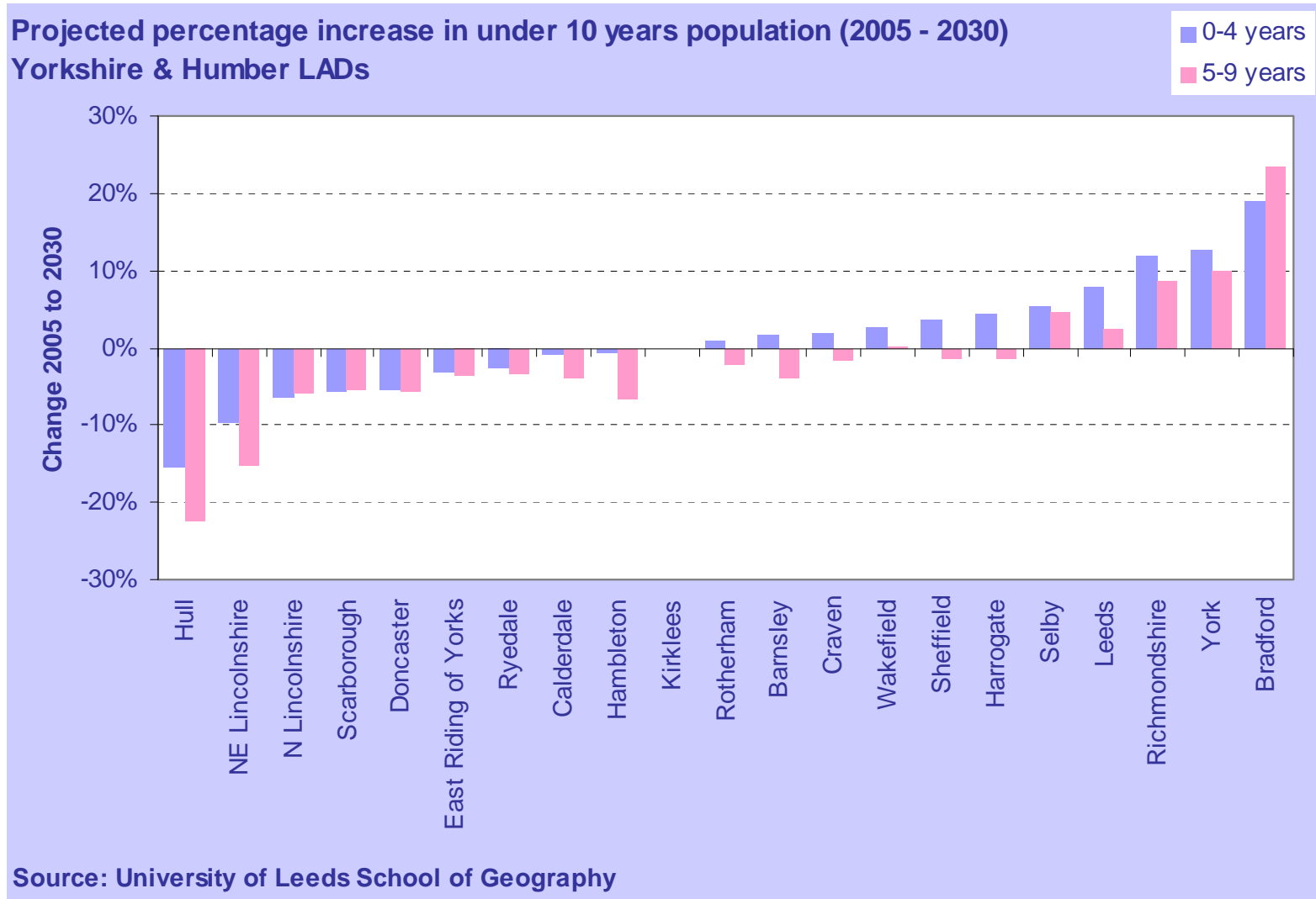
## Ageing population- but more children also





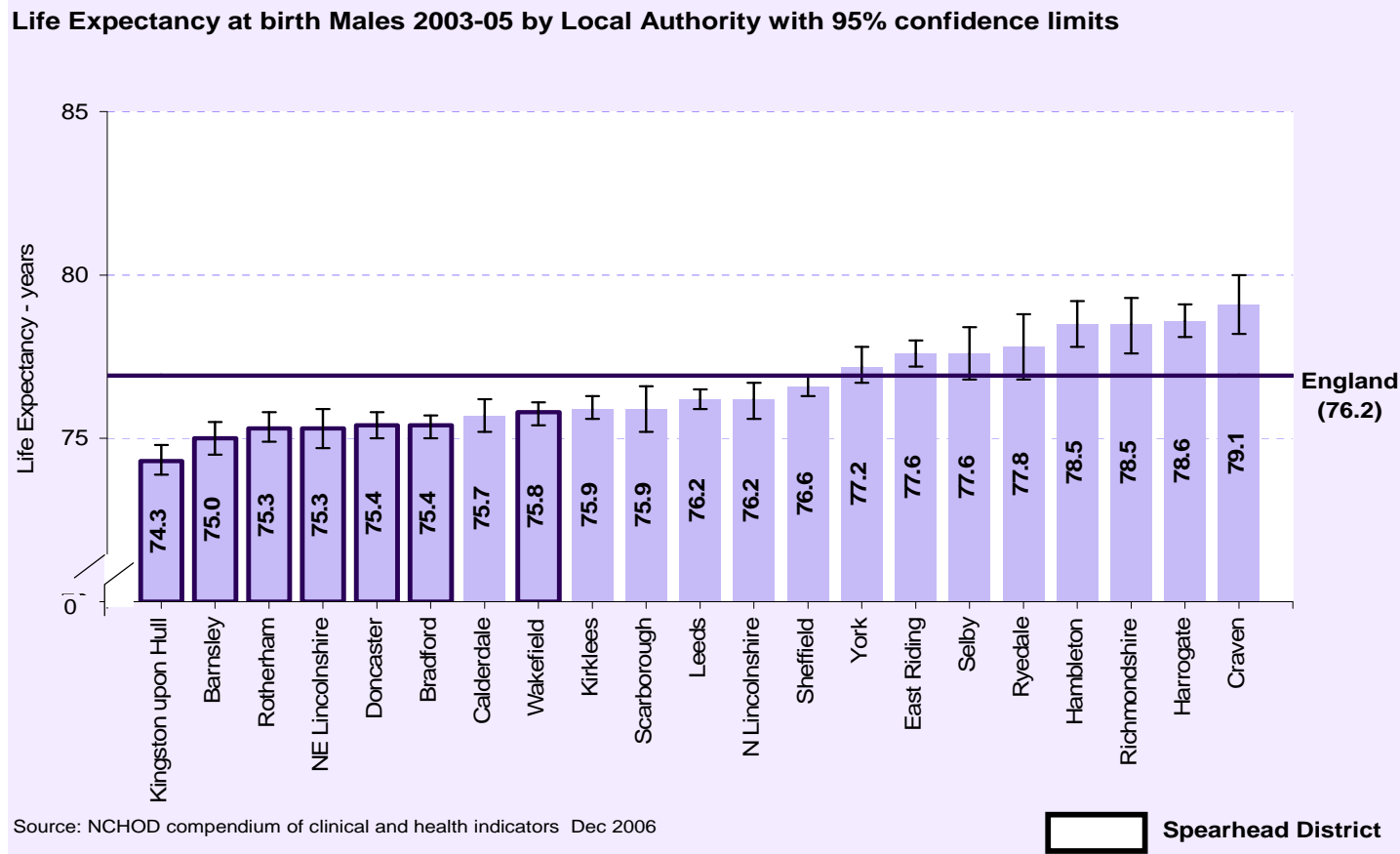
# Population change

## Wide local variations in pop growth for under 10s (LAs)



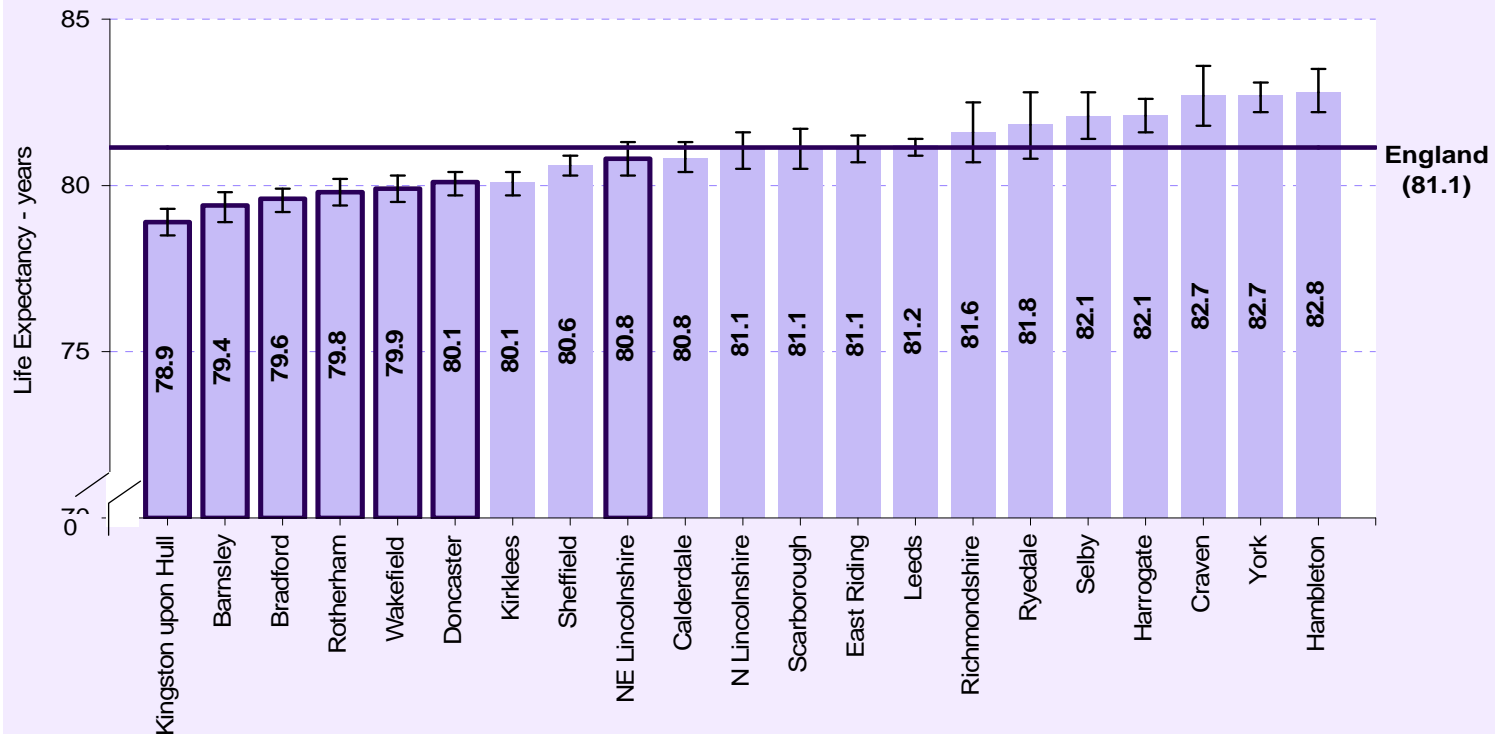


# Inequalities in health exist within the region



# Inequalities in health exist within the region

Life Expectancy at birth Females 2003-05 by Local Authority with 95% confidence limits



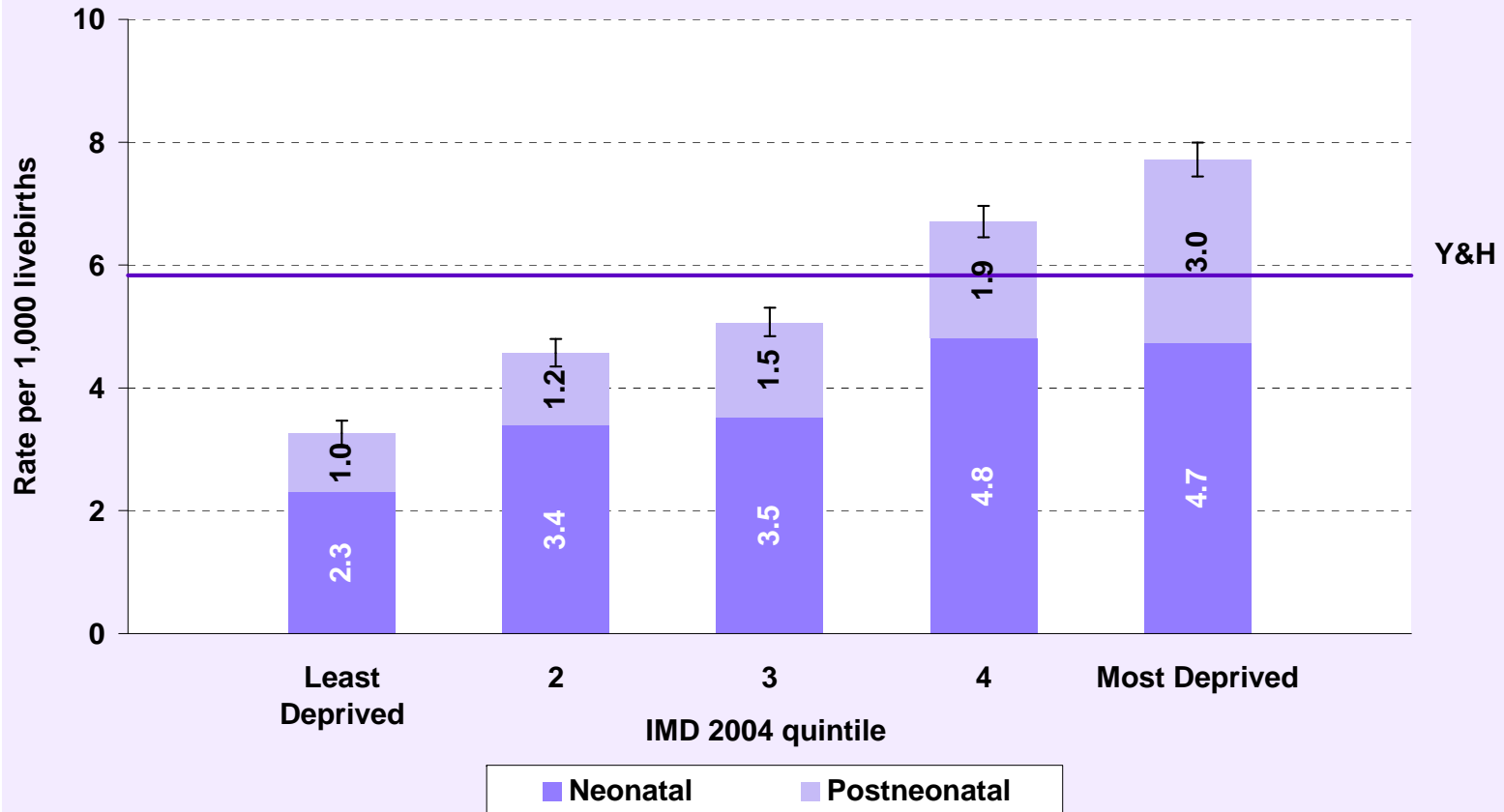
Source: NCHOD compendium of clinical and health indicators Dec 2006

 Spearhead District

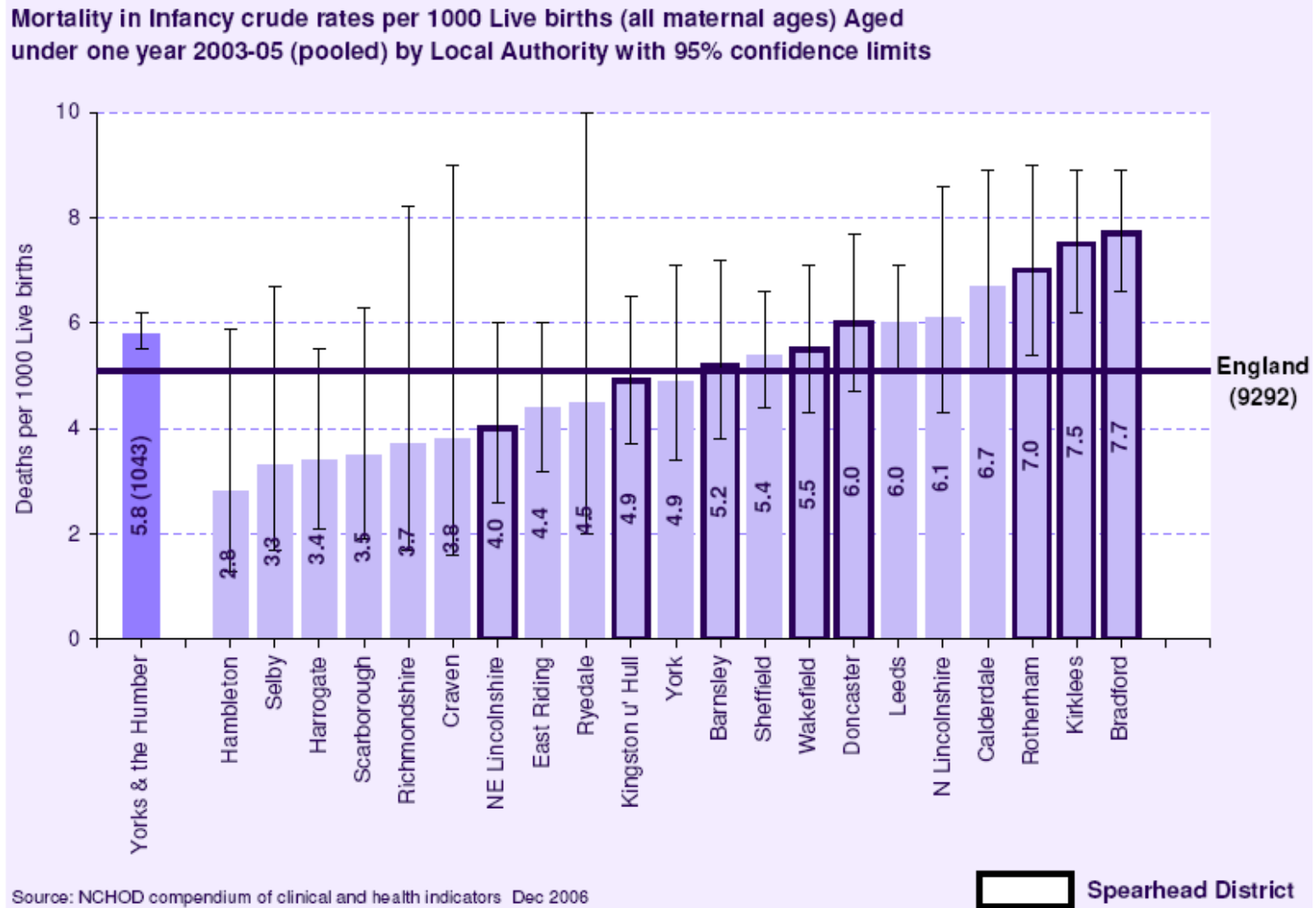


# Big socio-economic inequalities in infant mortality

Infant mortality rate 2003-05 by IMD 2004 deprivation quintile  
Yorkshire & Humber region



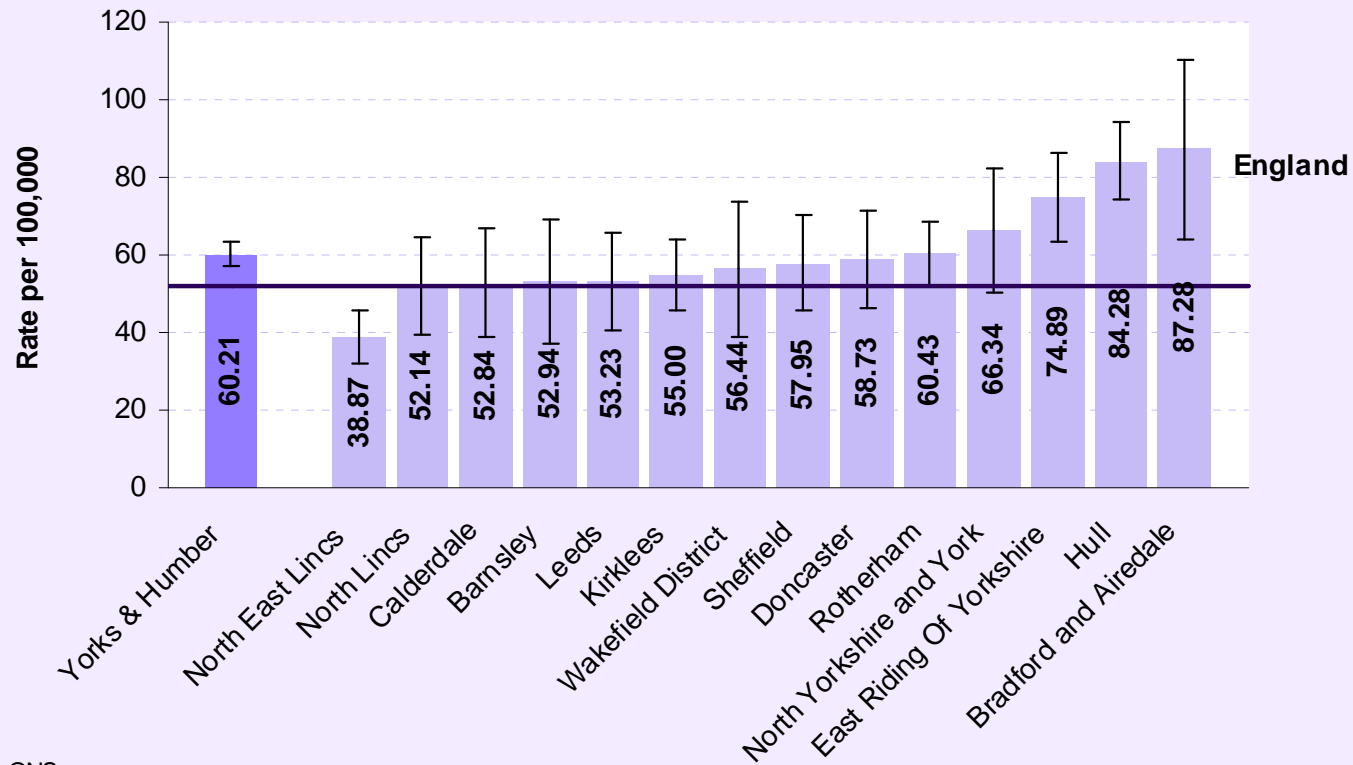
# ...and at local authority level





# Inequalities in childhood mortality too, Childhood mortality – under 15s

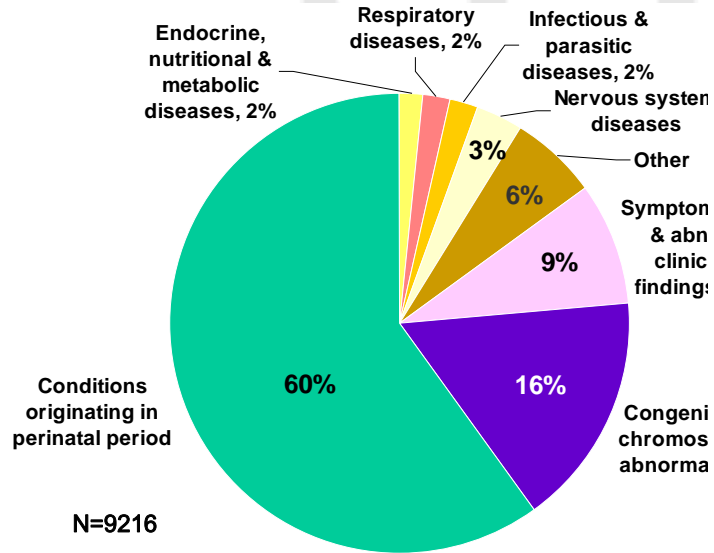
Directly age-standardised all cause mortality rates for children aged 15 and under 2003-05



Source : ONS

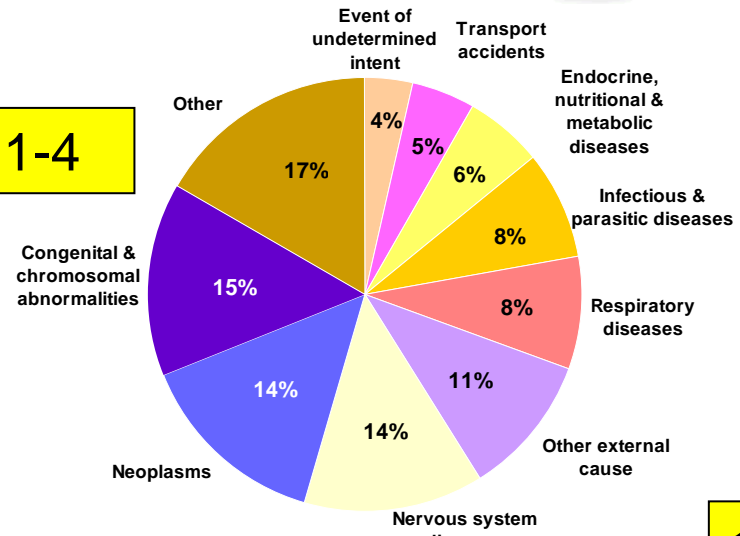
# Childhood mortality by cause – comparing age groups

<1



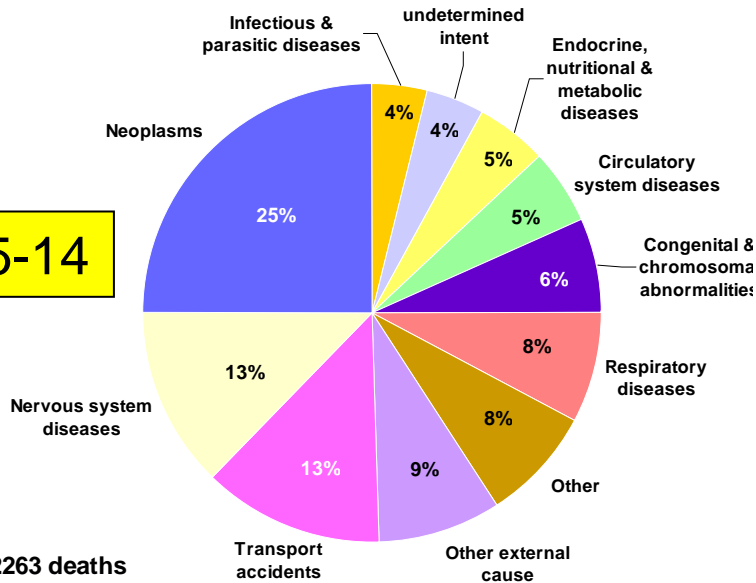
N=9216

1-4



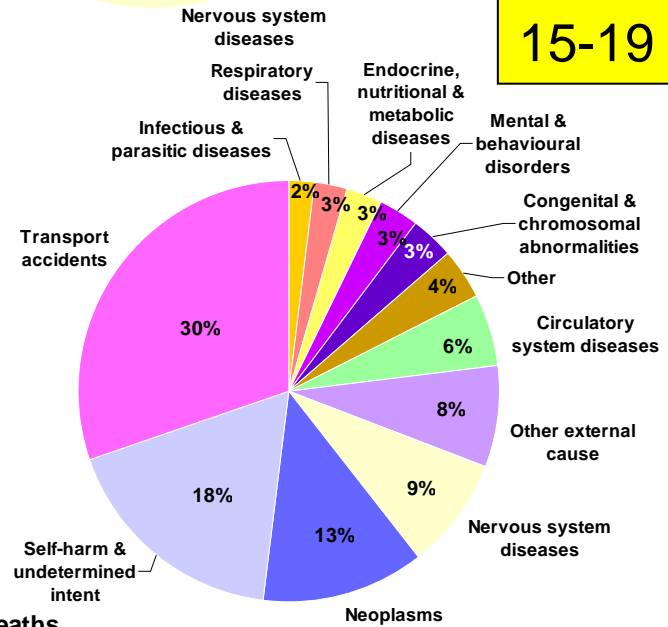
N=1596 deaths

5-14



N=2263 deaths

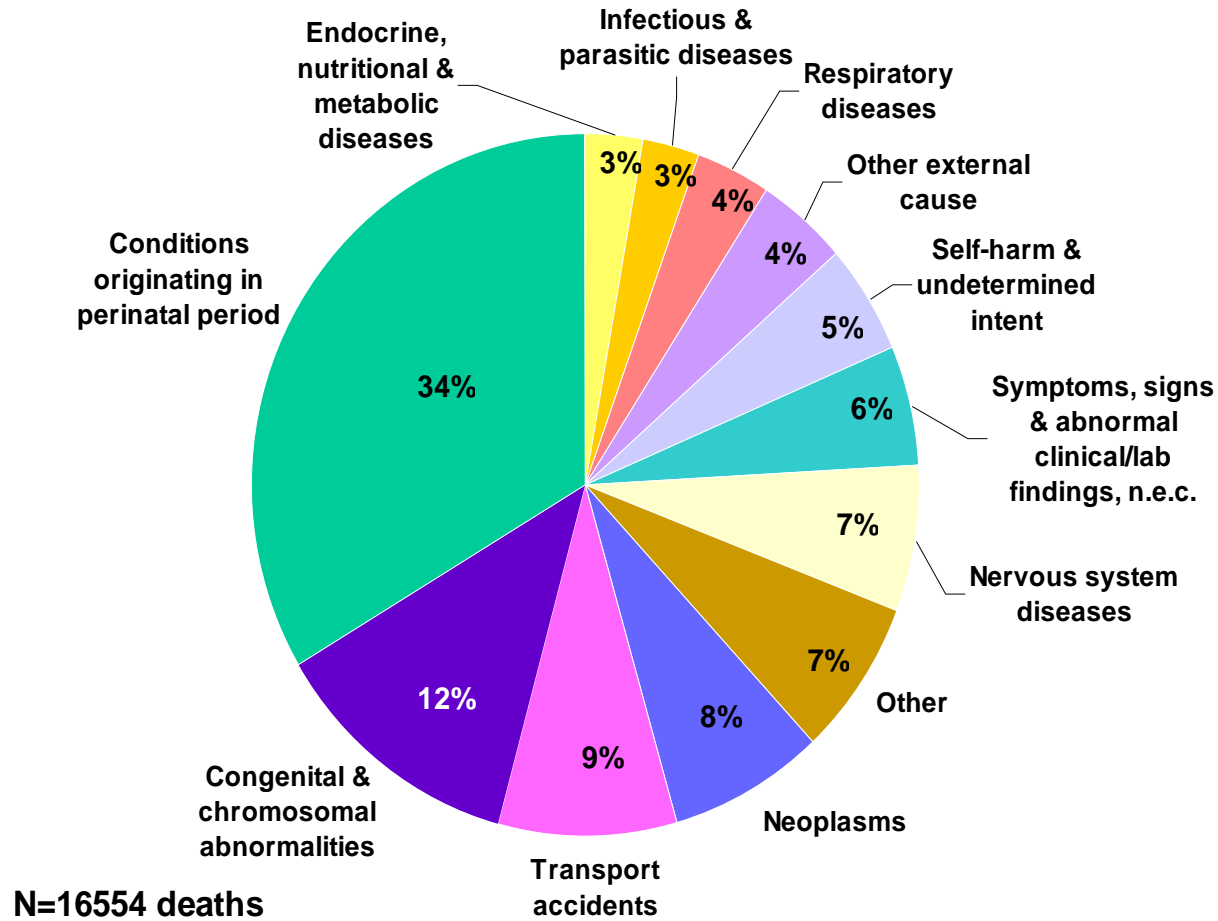
15-19



N=3479 deaths



# Deaths by cause category England 2002-04 (ages 0-19 years)



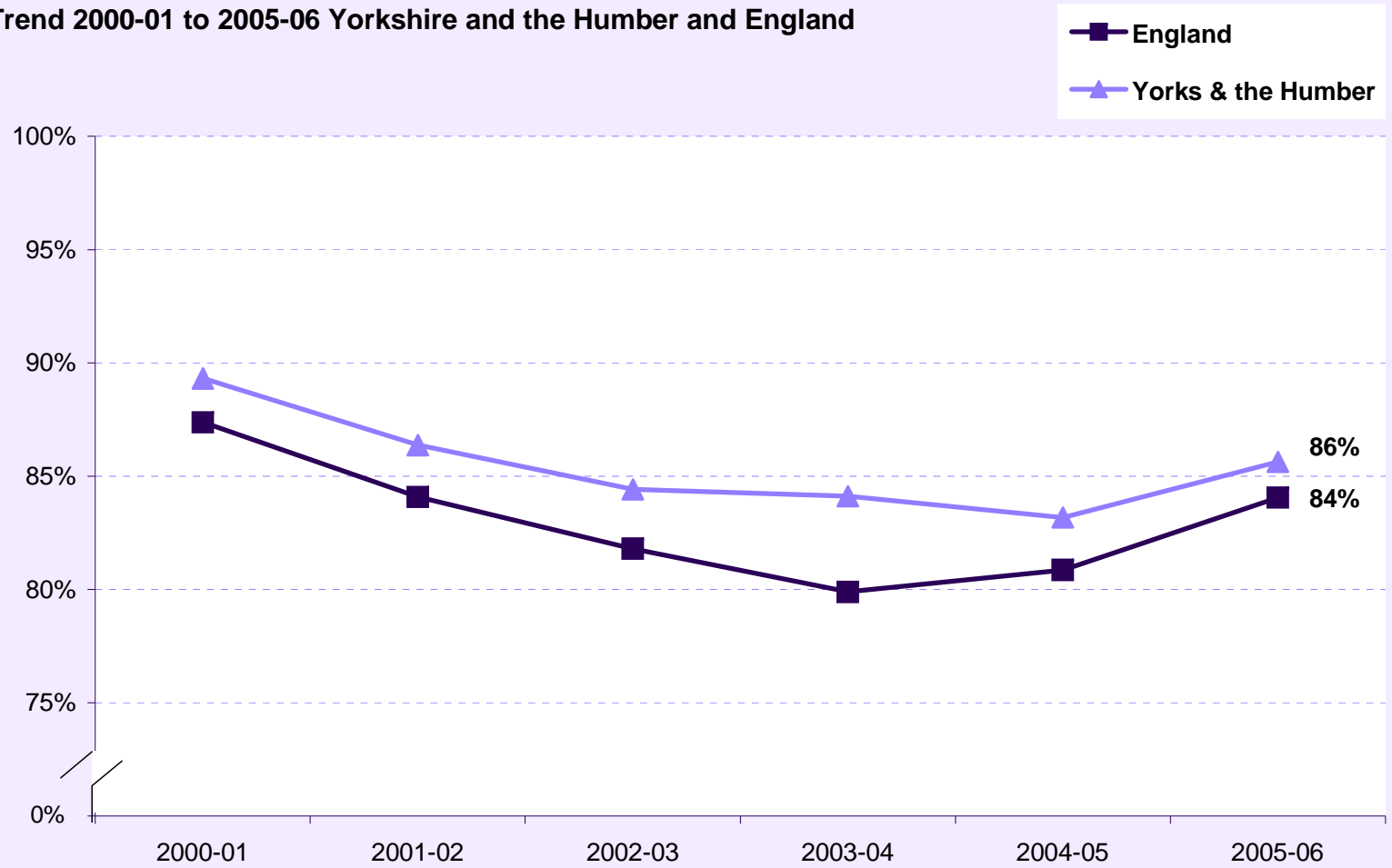
Source: ONS annual death extracts



# Key indicators - Immunisation

## MMR uptake increasing again

Percentage of 2-year-old children who have received the MMR vaccine  
Trend 2000-01 to 2005-06 Yorkshire and the Humber and England

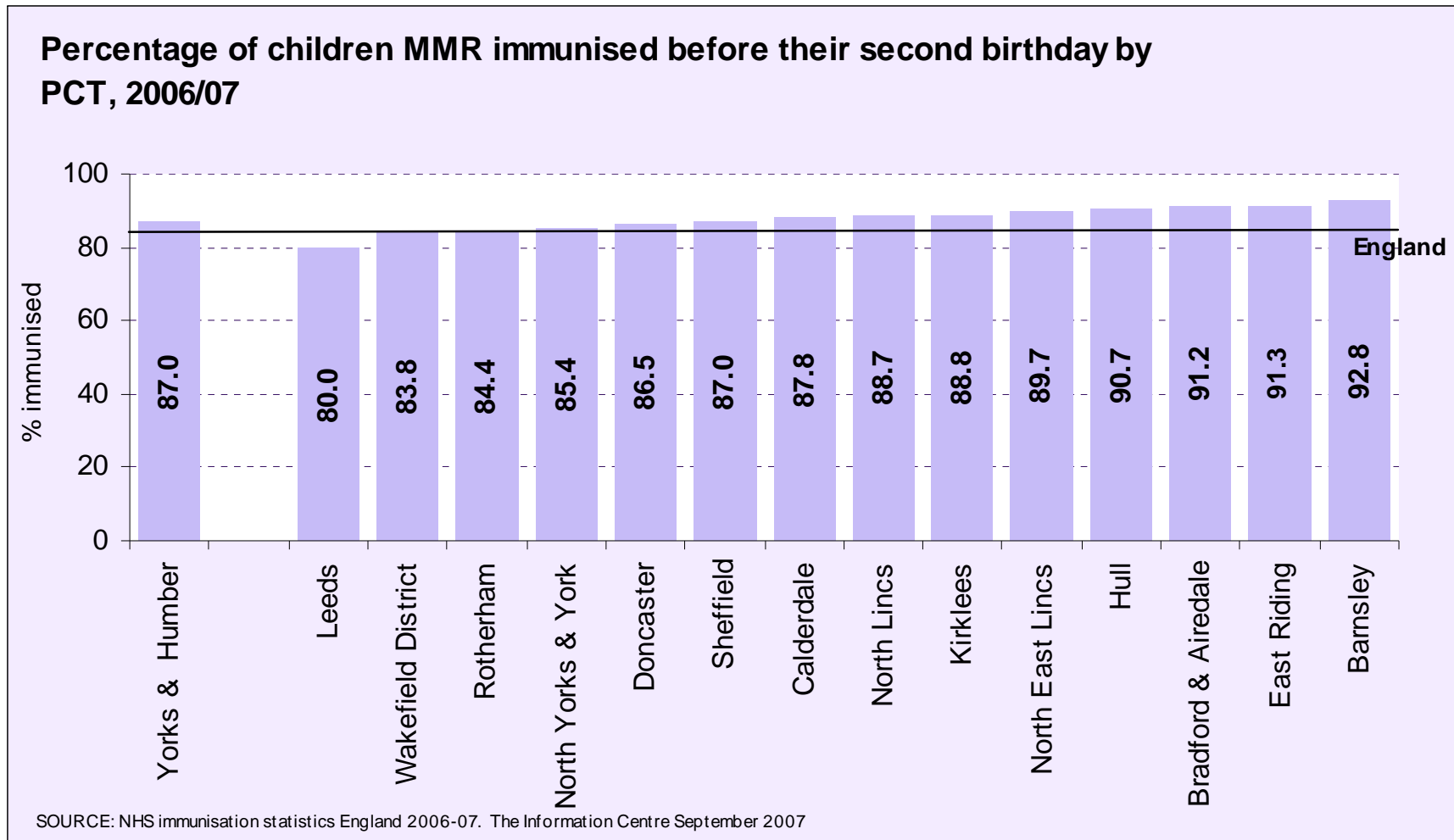


Source: Health Protection Agency 2007



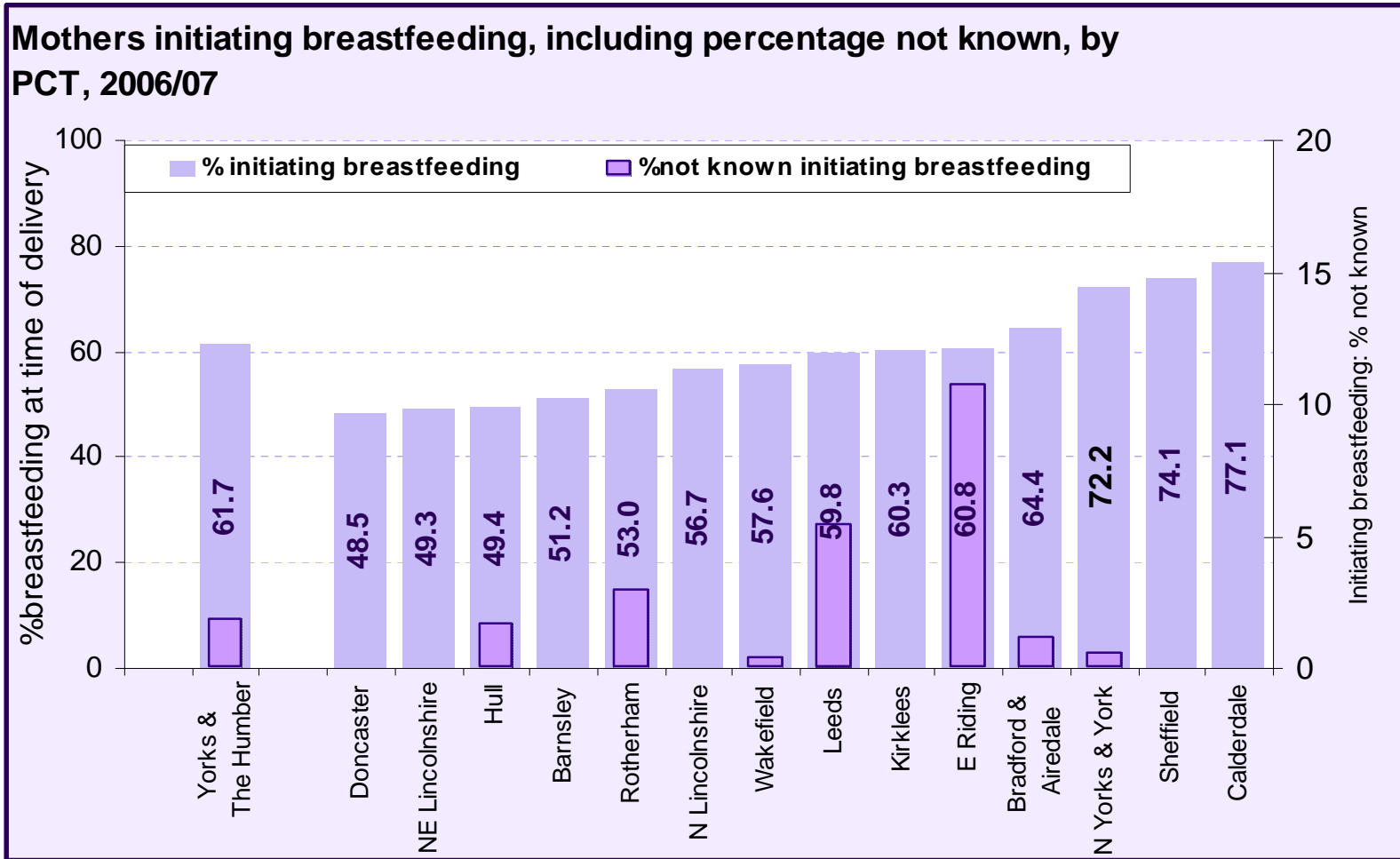
# Key indicators – Immunisation:

Variation within the region



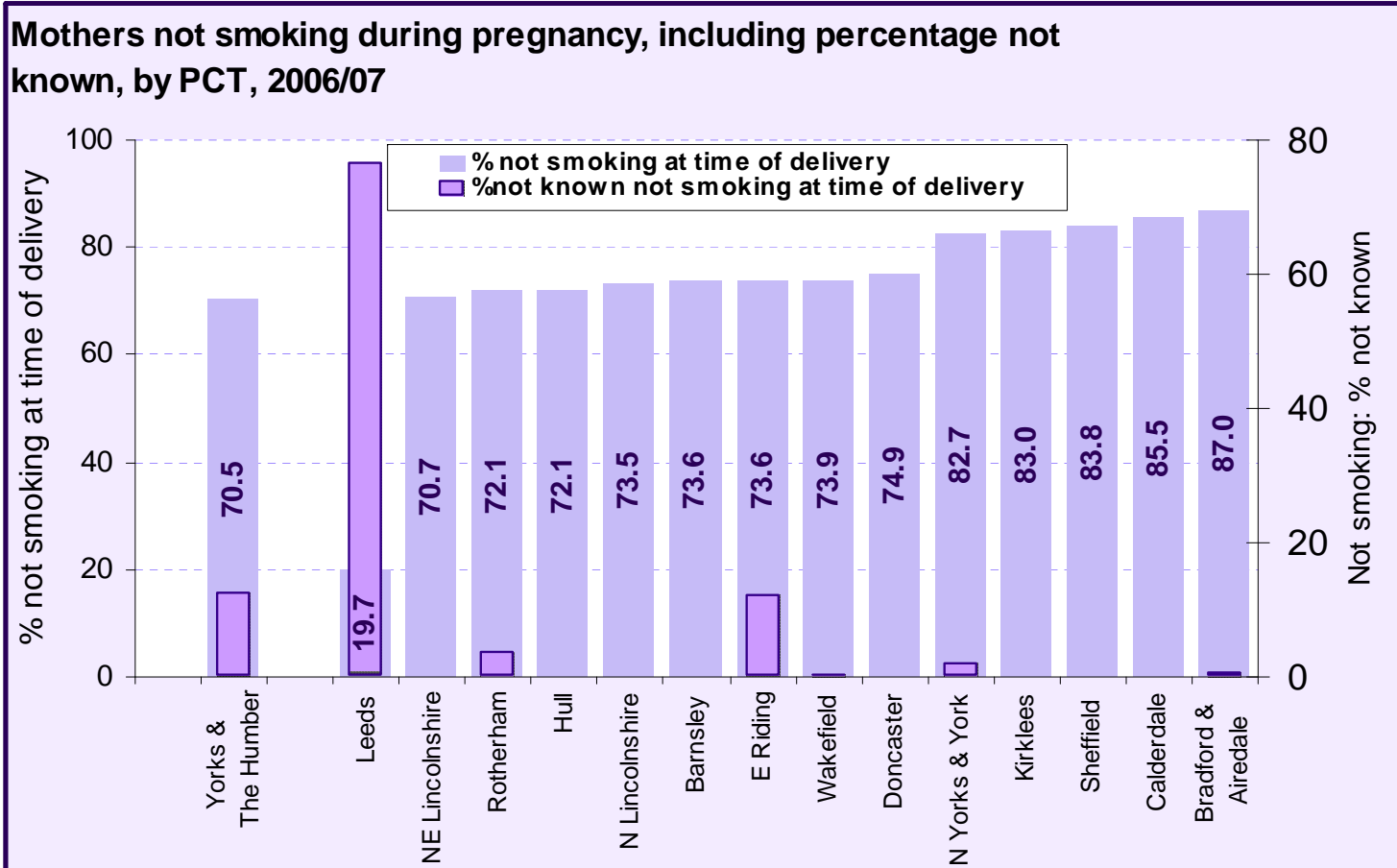


# Key indicators - Breastfeeding initiation



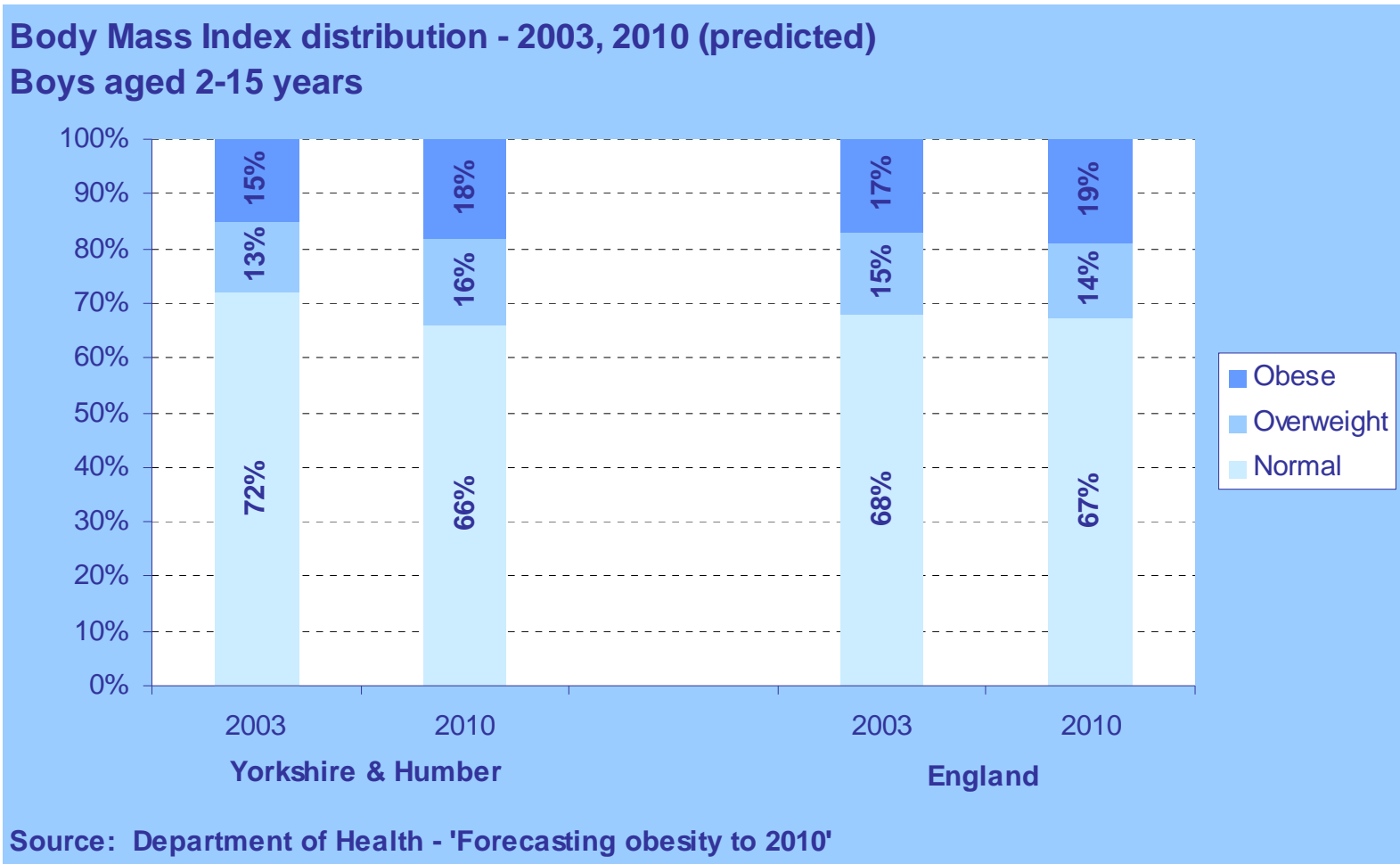


# Key indicators: Smoking during pregnancy





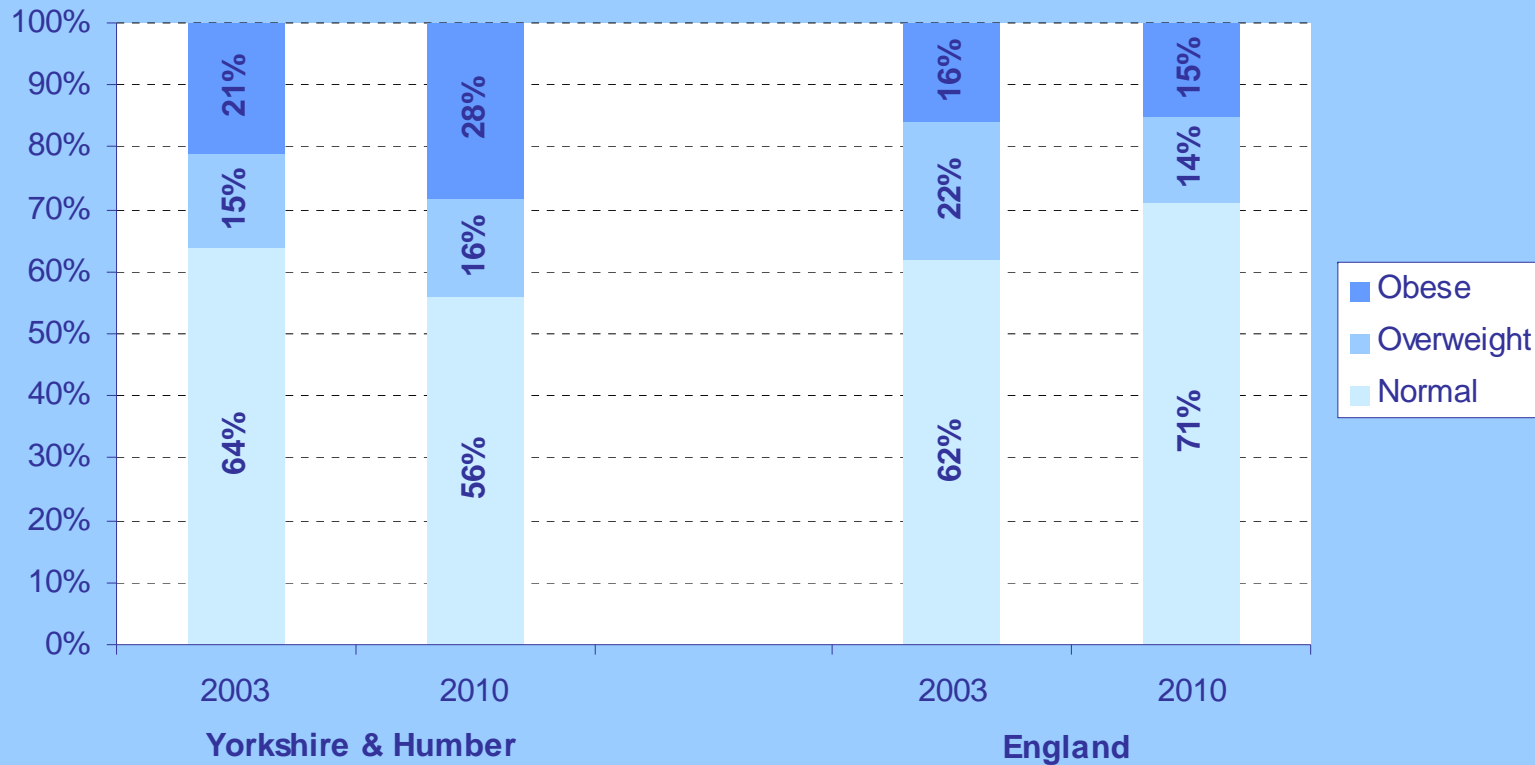
# Looking ahead - Obesity projections: 34% boys overweight (18% obese) by 2010





# Looking ahead - Obesity projections: 44% girls overweight (28% obese) by 2010

Body Mass Index distribution - 2003, 2010 (predicted)  
Girls aged 2-15 years

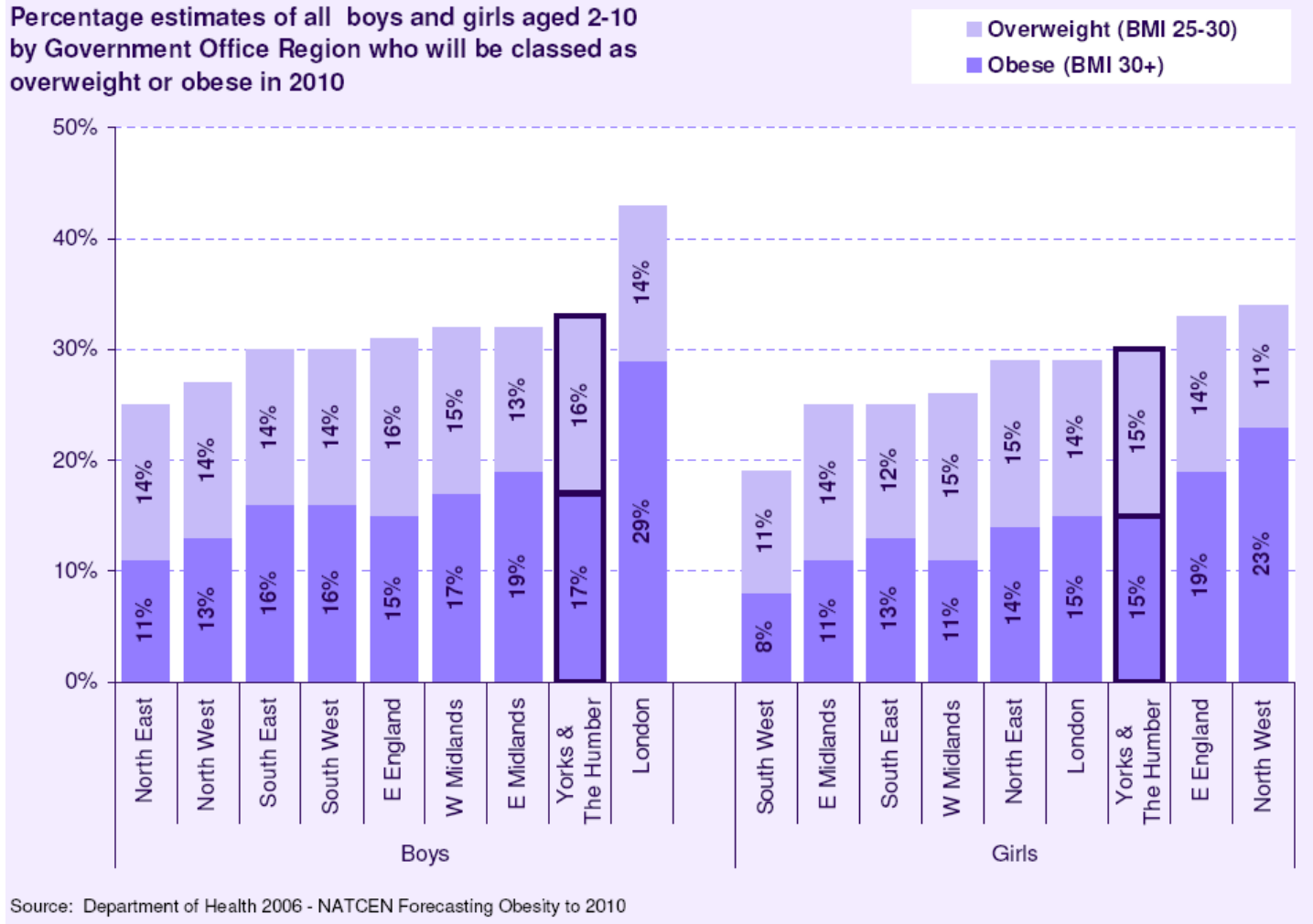


Source: Department of Health - 'Forecasting obesity to 2010'



# Looking ahead - Obesity projections

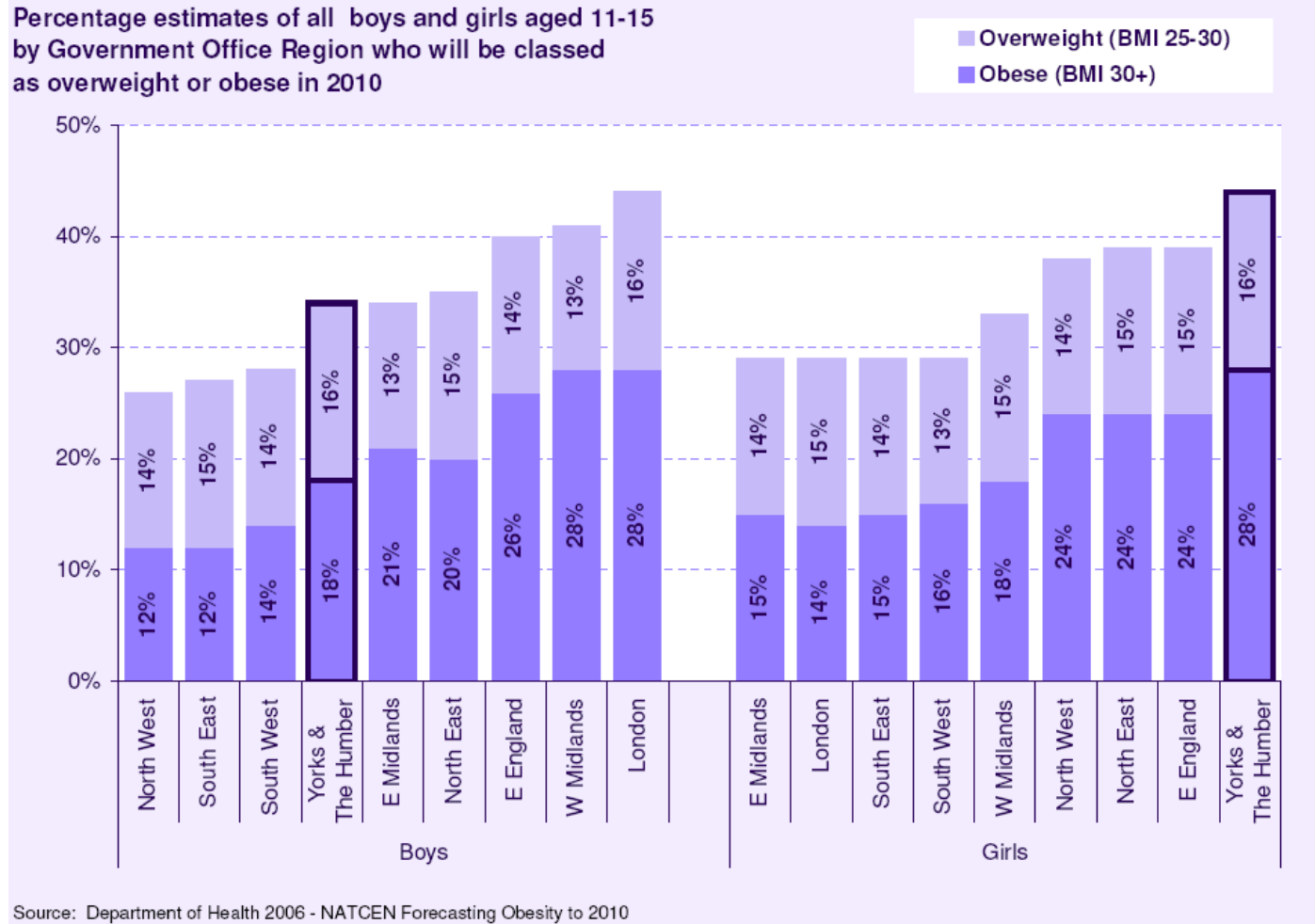
Boys aged 2-10 compare poorly





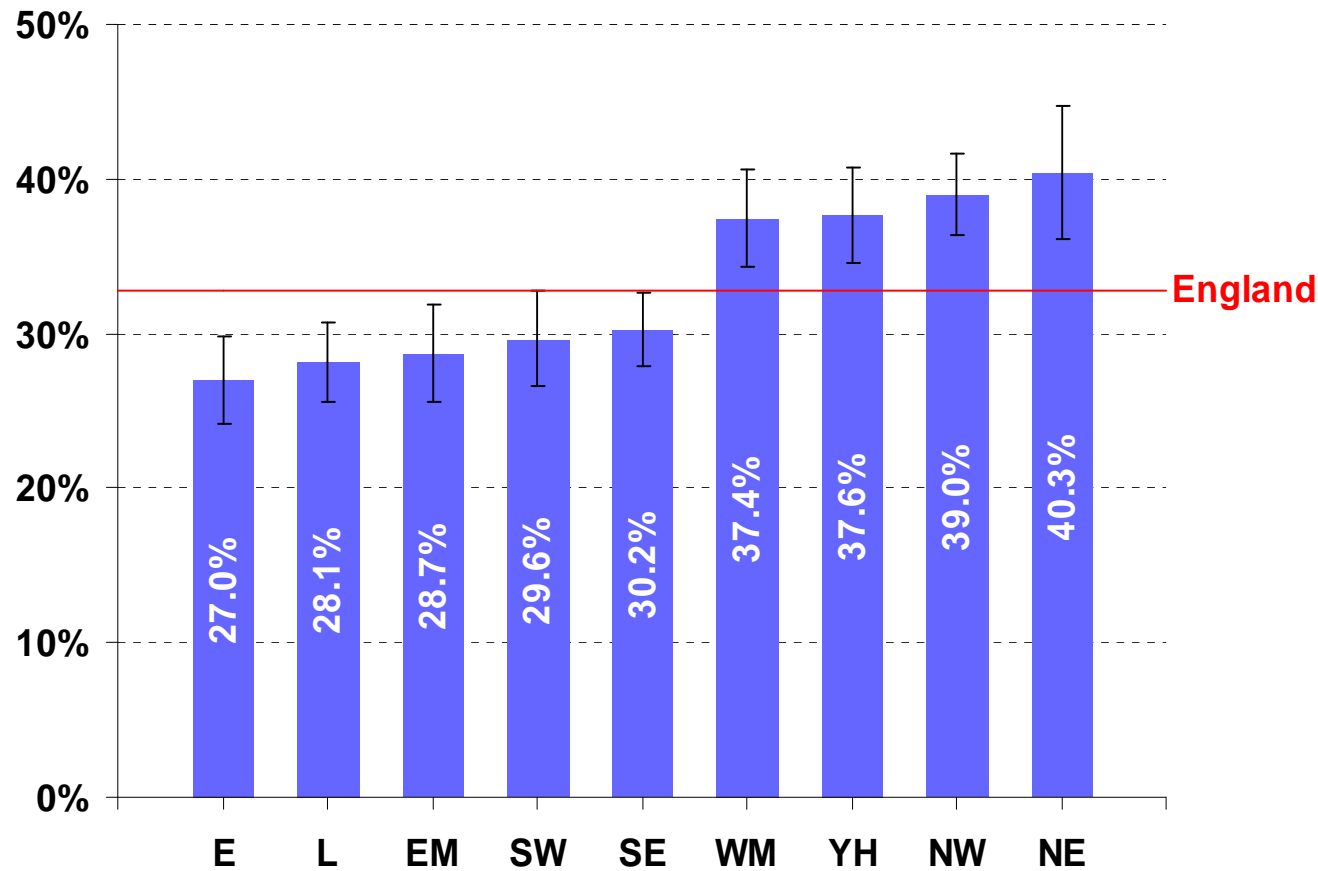
# Looking ahead - Obesity projections

Girls aged 11-15 compare poorly





## Other key determinants: Children living in households where someone smokes (ages 0-15 years)

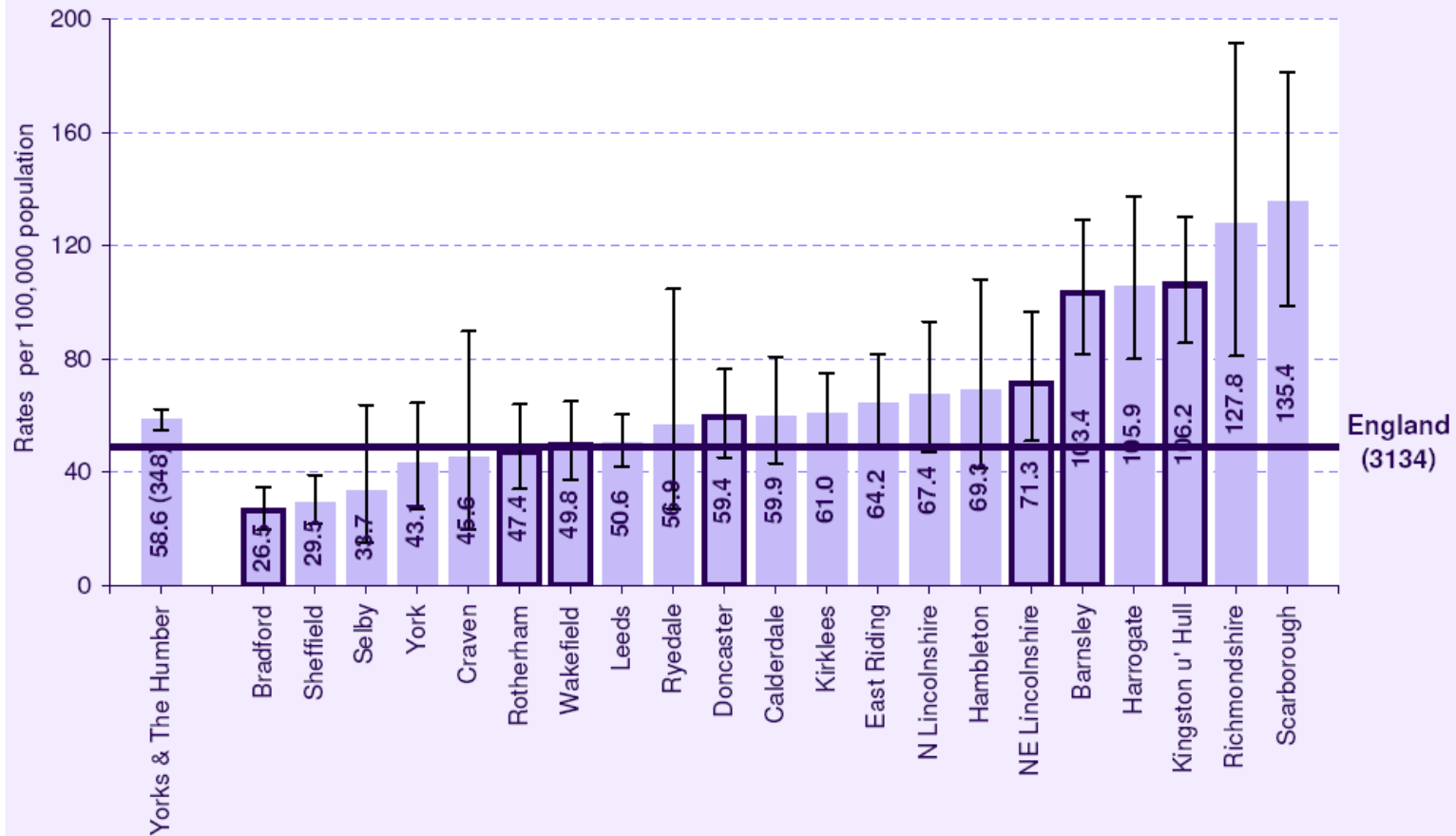


Source: HSE 2002



# Inequalities in admissions to hospital for alcohol - not just a Spearhead problem

Under 18 alcohol specific admission rates per 100,000 population for males by Local Authority 2004/05 with 95% confidence intervals



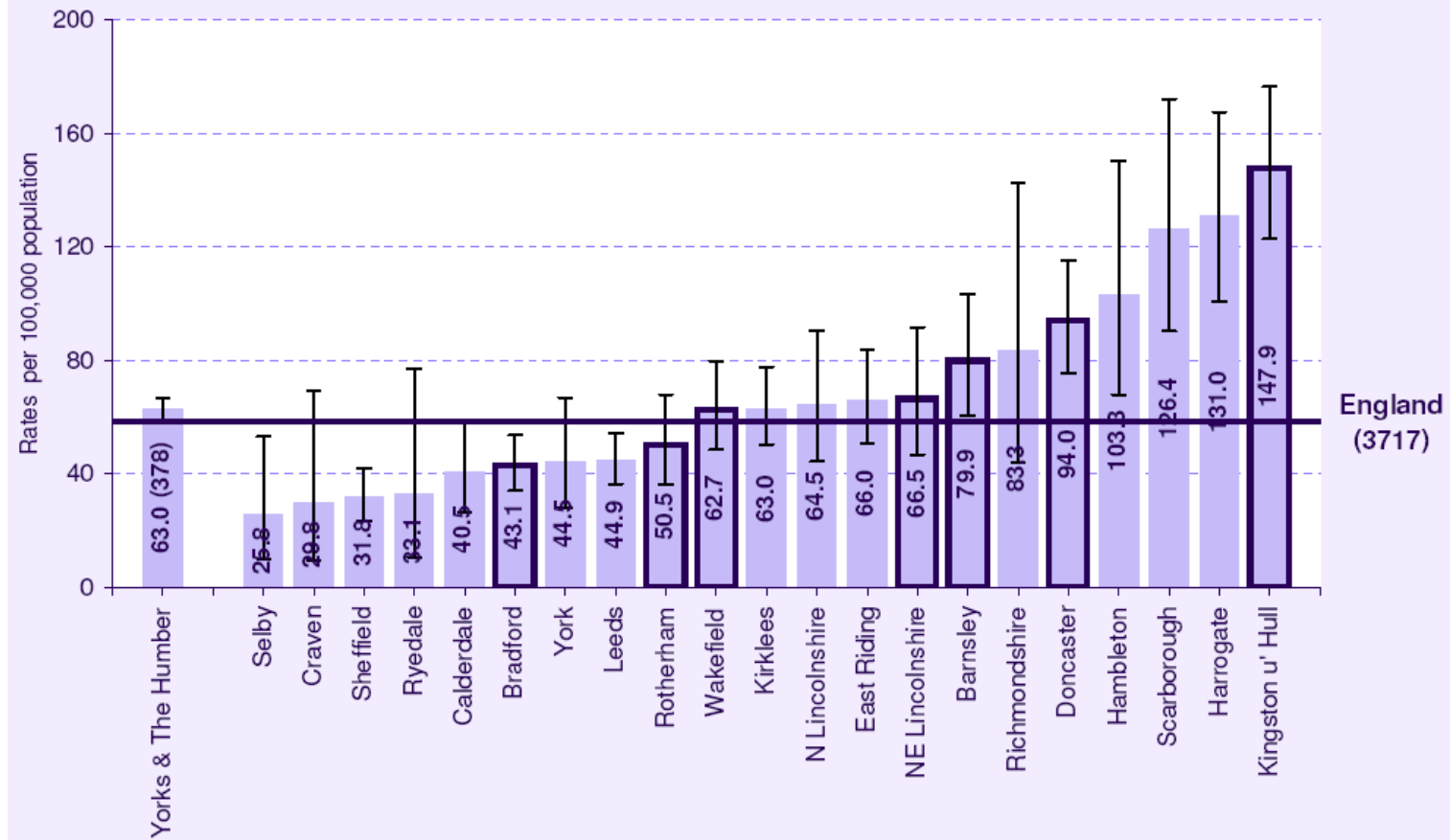
Source: Health Survey for England - Information Centre/Department of Health

Spearhead District



# Inequalities in admissions to hospital for alcohol - not just a Spearhead problem

Under 18 alcohol specific admission rates per 100,000 population for females by Local Authority 2004/05 with 95% confidence intervals

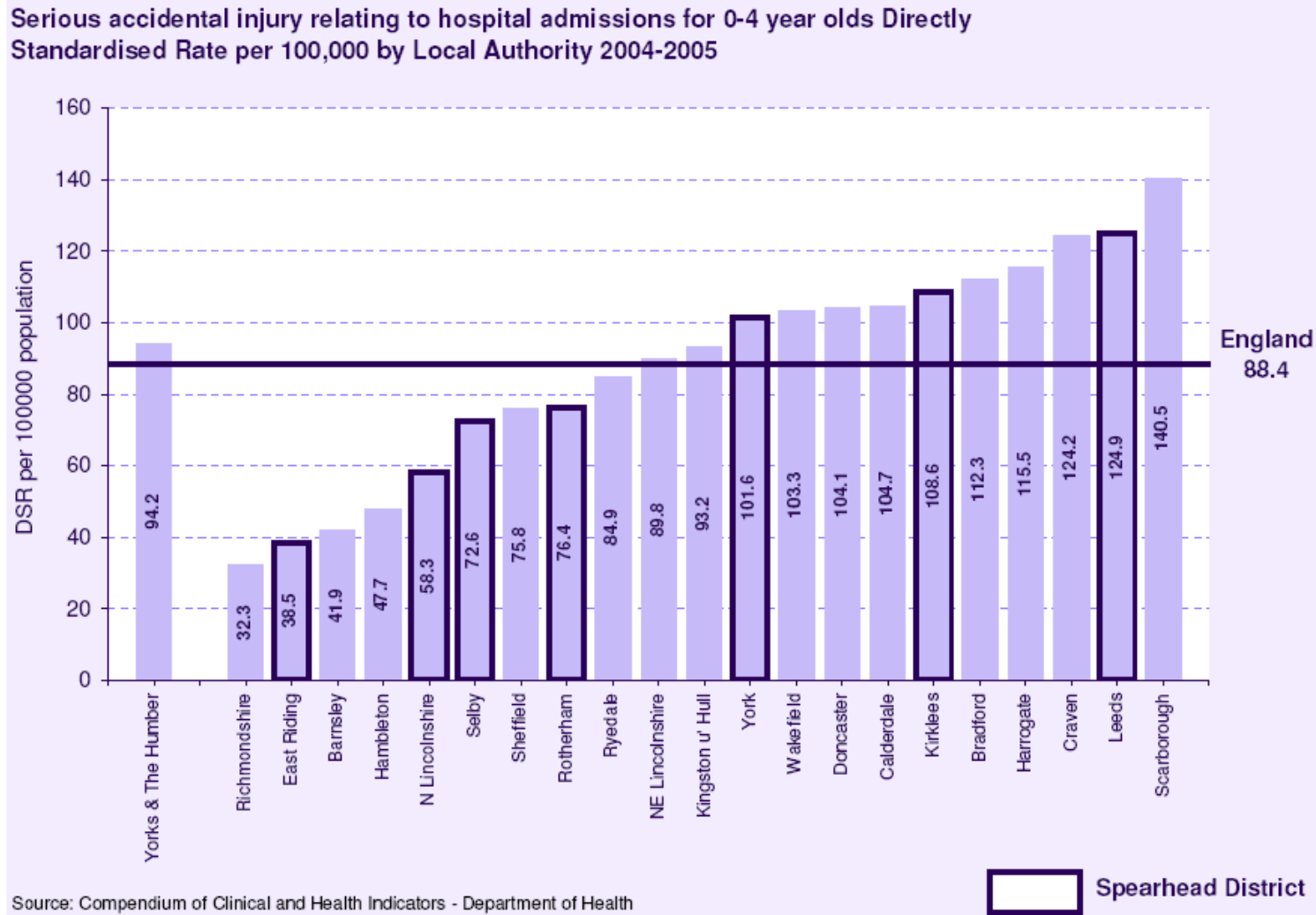


Source: Health Survey for England - Information Centre/Department of Health

Spearhead District

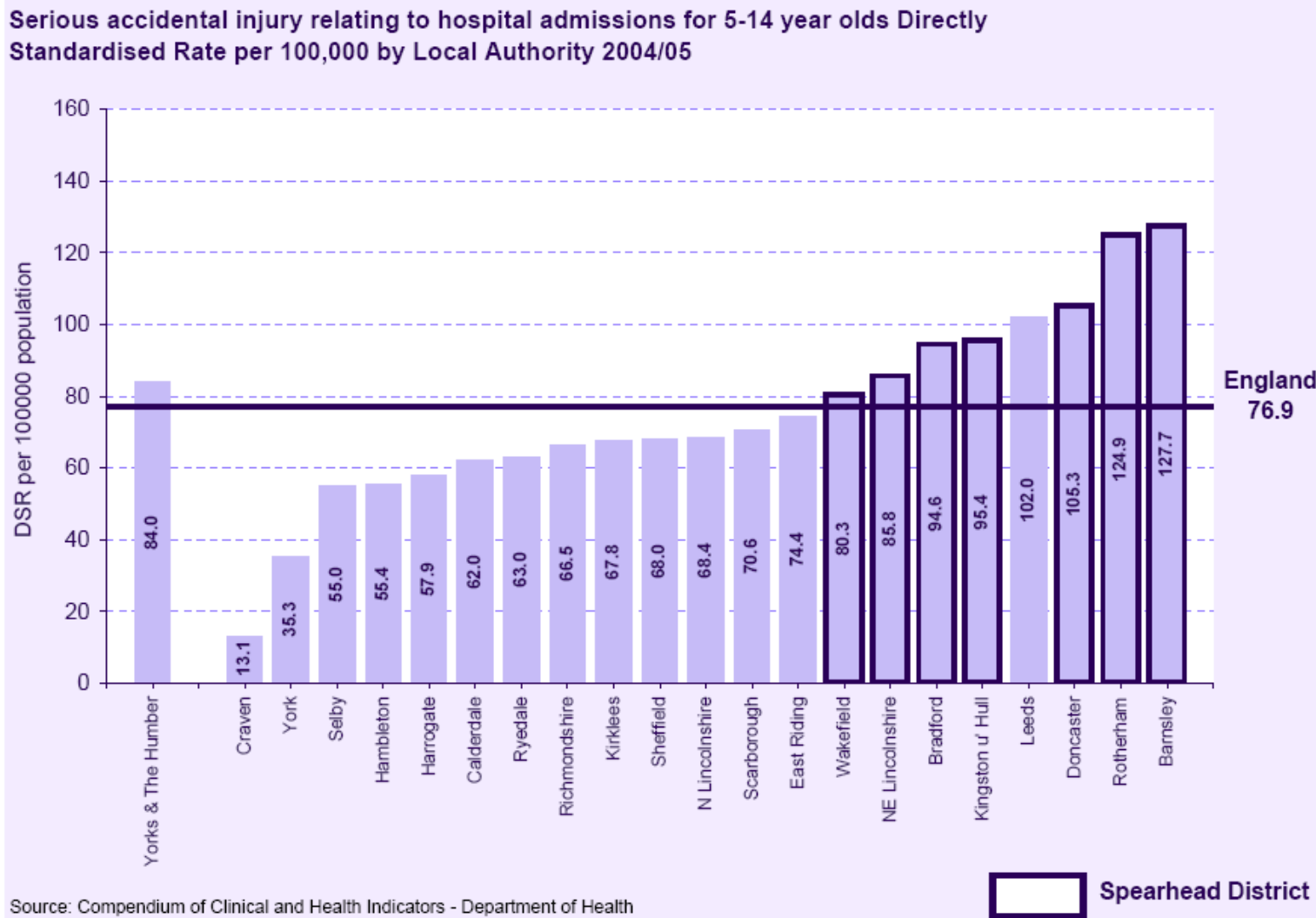


# Accidents - Wide Inequalities in 0-4 admissions





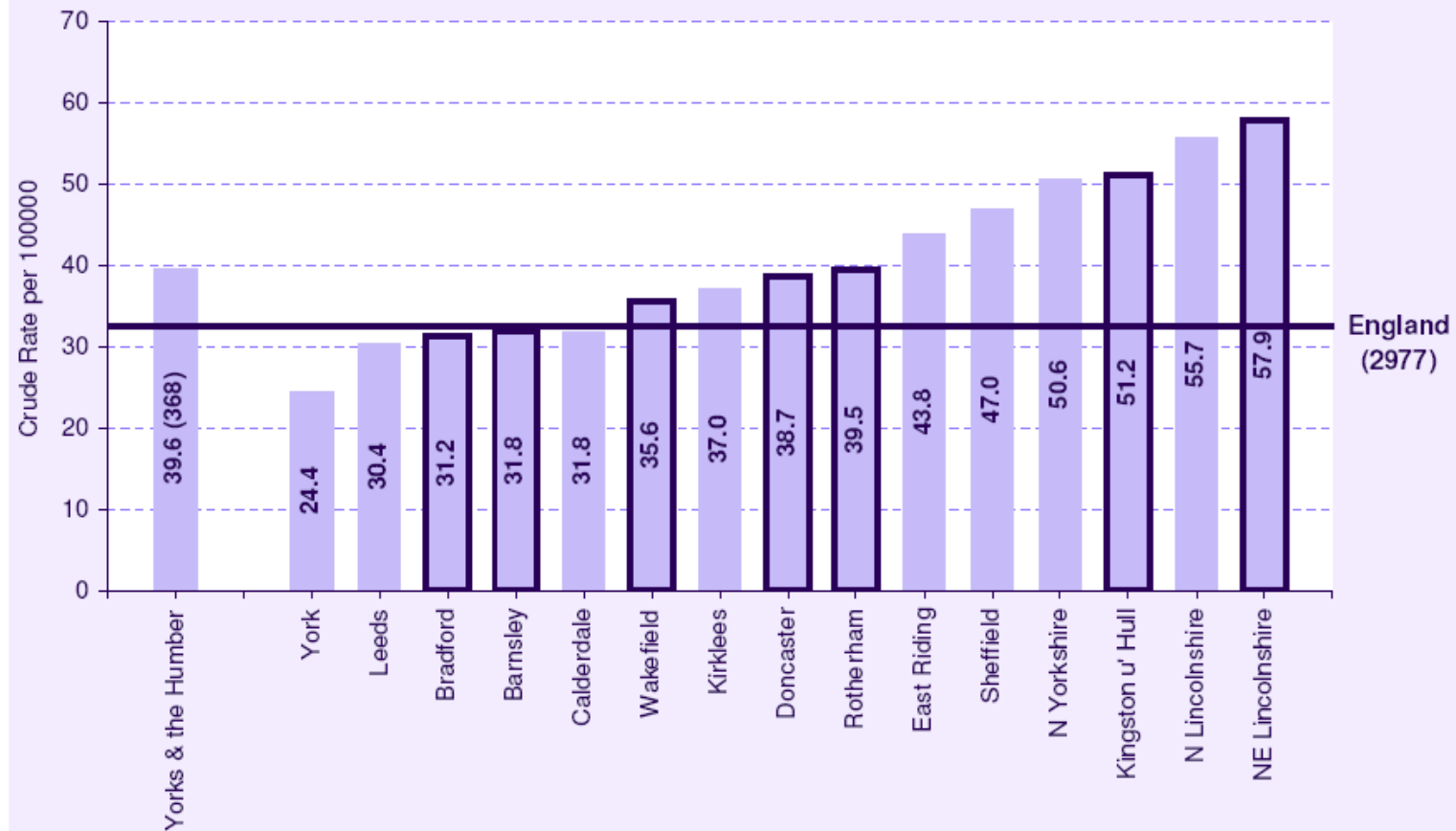
# Accidents - Wide Inequalities in 5-14 admissions, more closely linked to deprivation?






# Traffic accidents – crude rates for children aged under 15

Traffic Accidents - All Child casualties by Local Authority crude rates per 100000 children under 15 2005

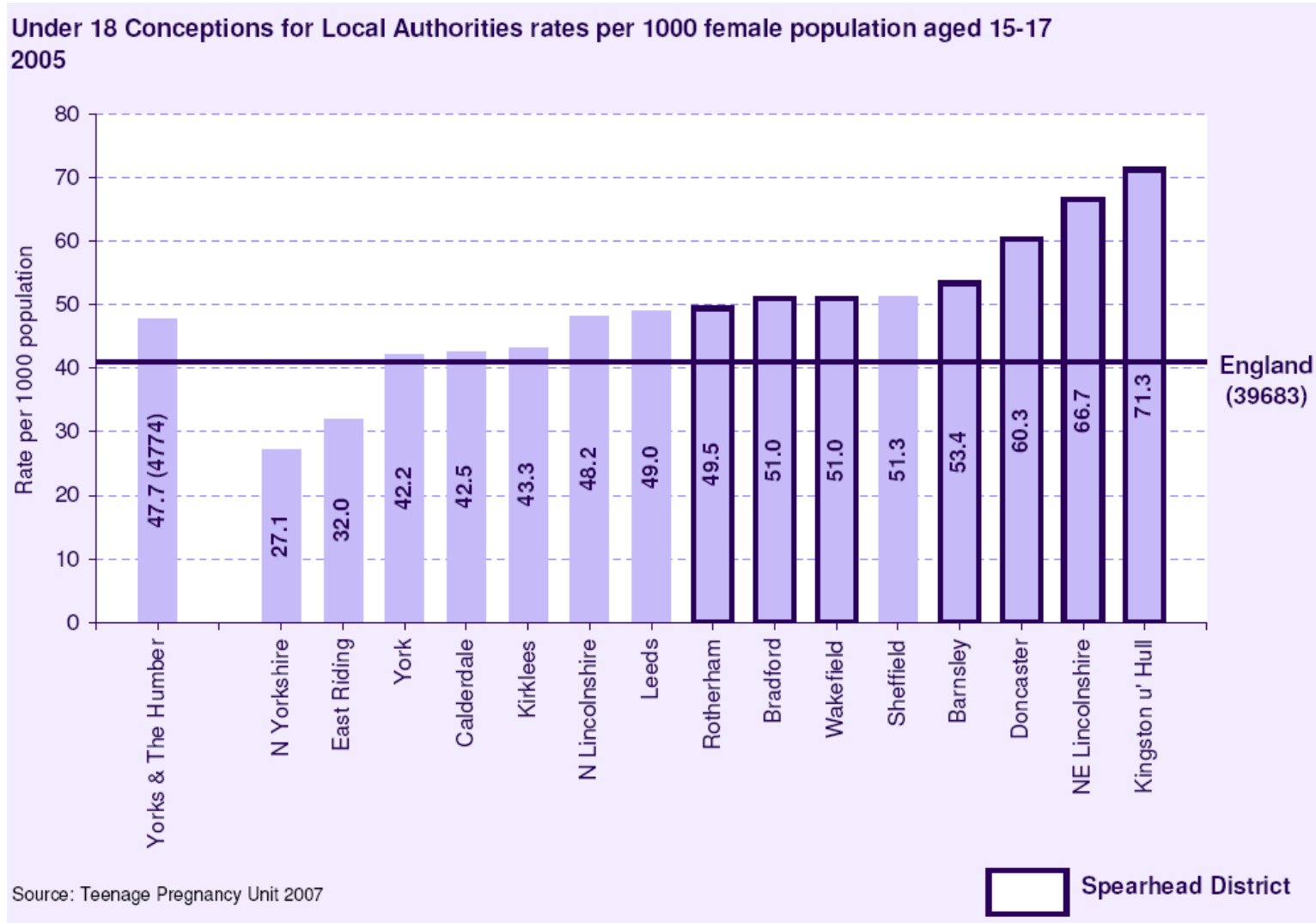


Source: Department for Transport 2006

 Spearhead District



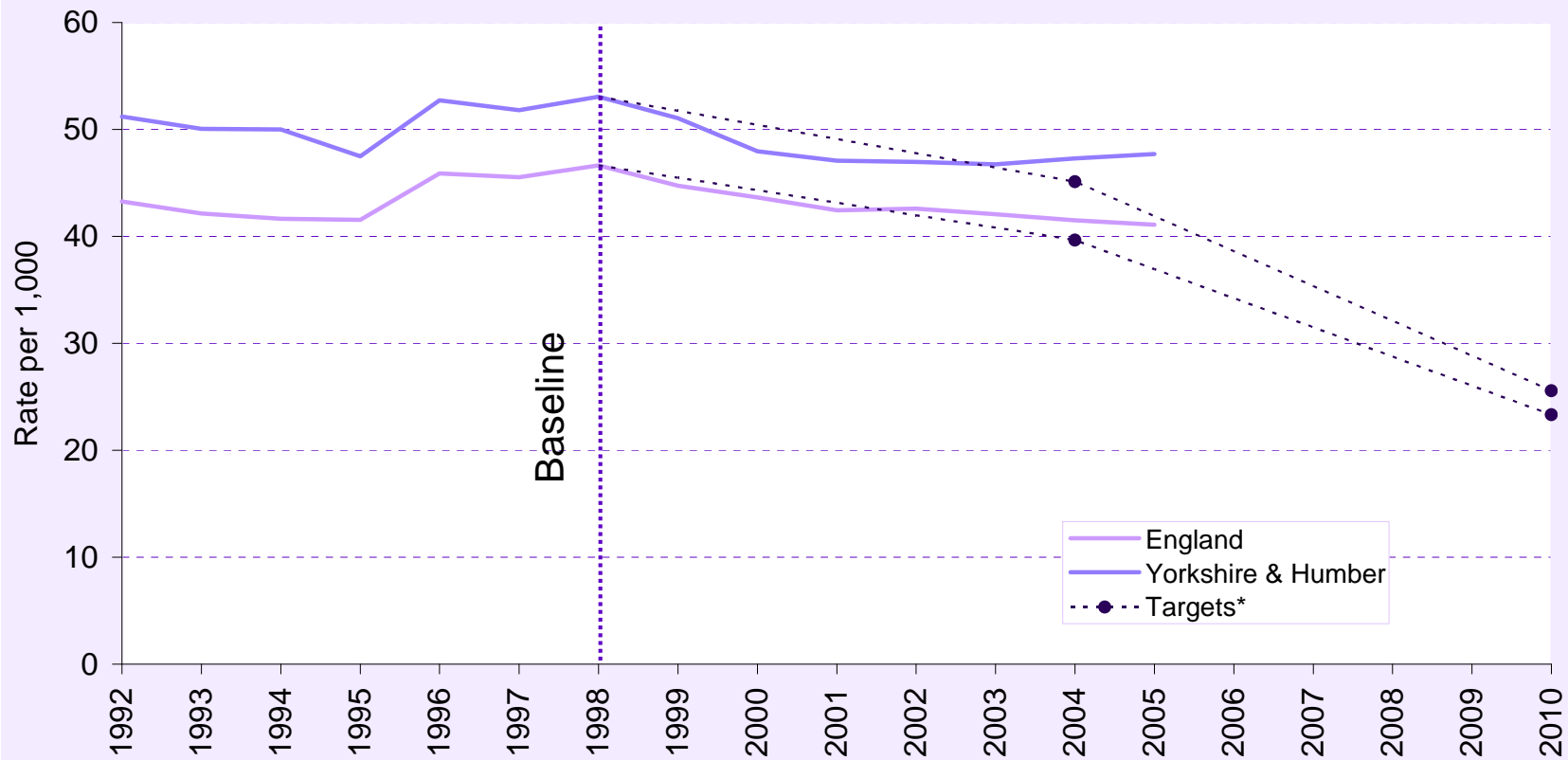
# Key Indicators - Teenage conceptions: high regionally, big local variation and...





# Challenging targets.....

Under 18 years conception rate, 1992 to 2005  
England vs Yorkshire & Humber Region

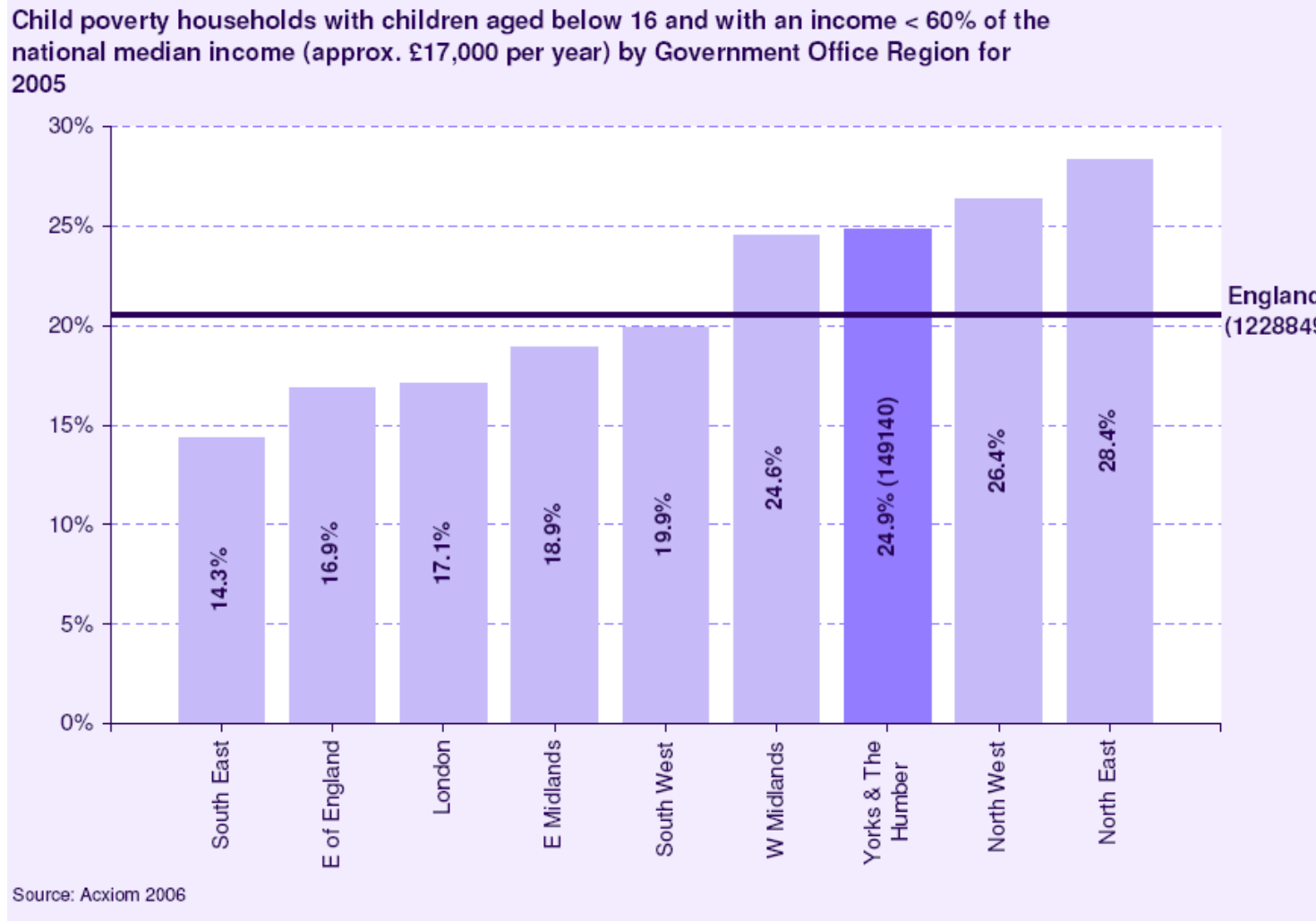


Source: ONS/TPU

\* Yorkshire & Humber 2010 target (51.8% decrease) assumes local area targets are met



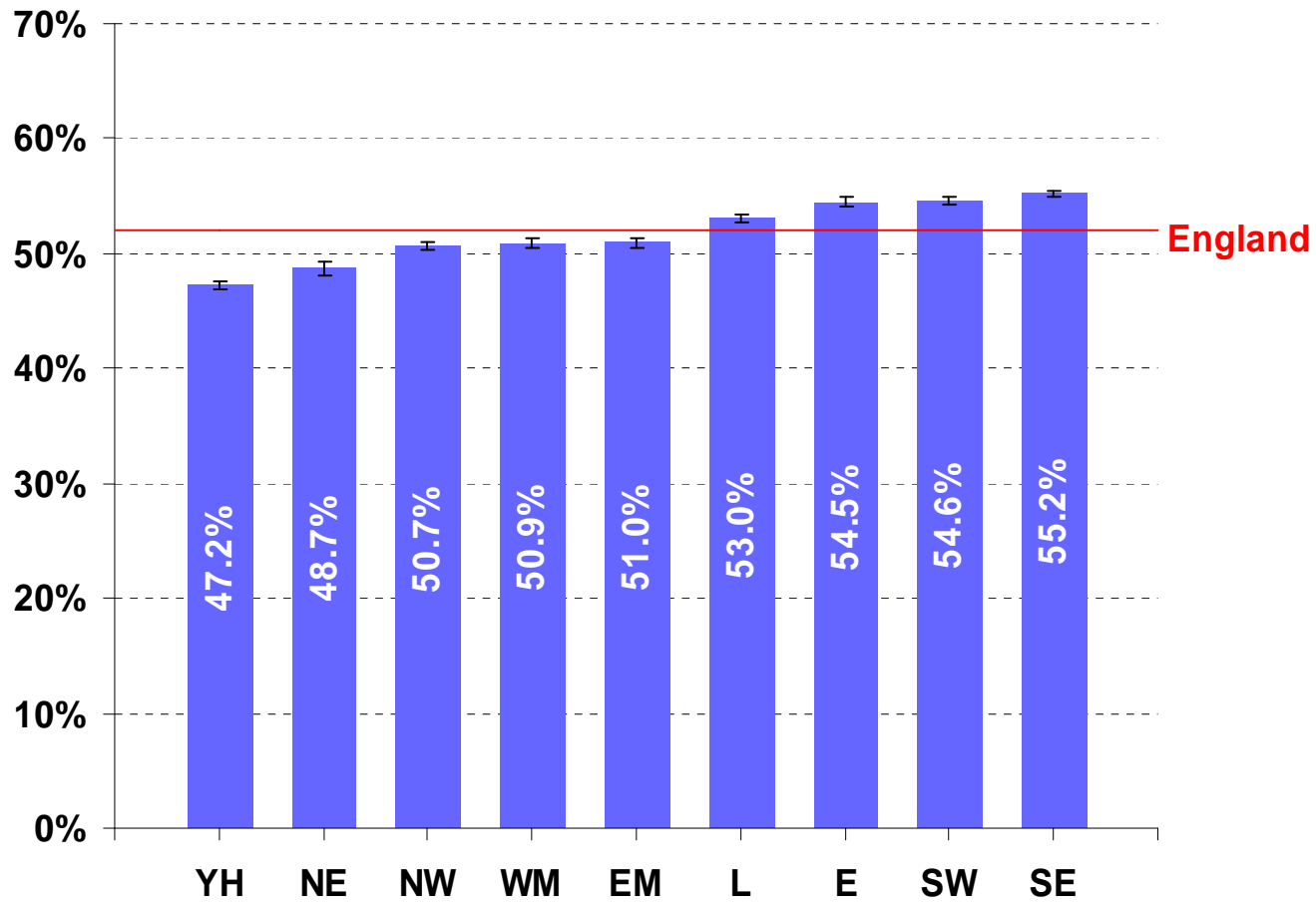
# Other key determinants: Child poverty





## Other key determinants - Educational attainment:

% of children achieving 5+ A\*-C grade GCSEs or equivalent by GOR 2003/04 (age 15 years)

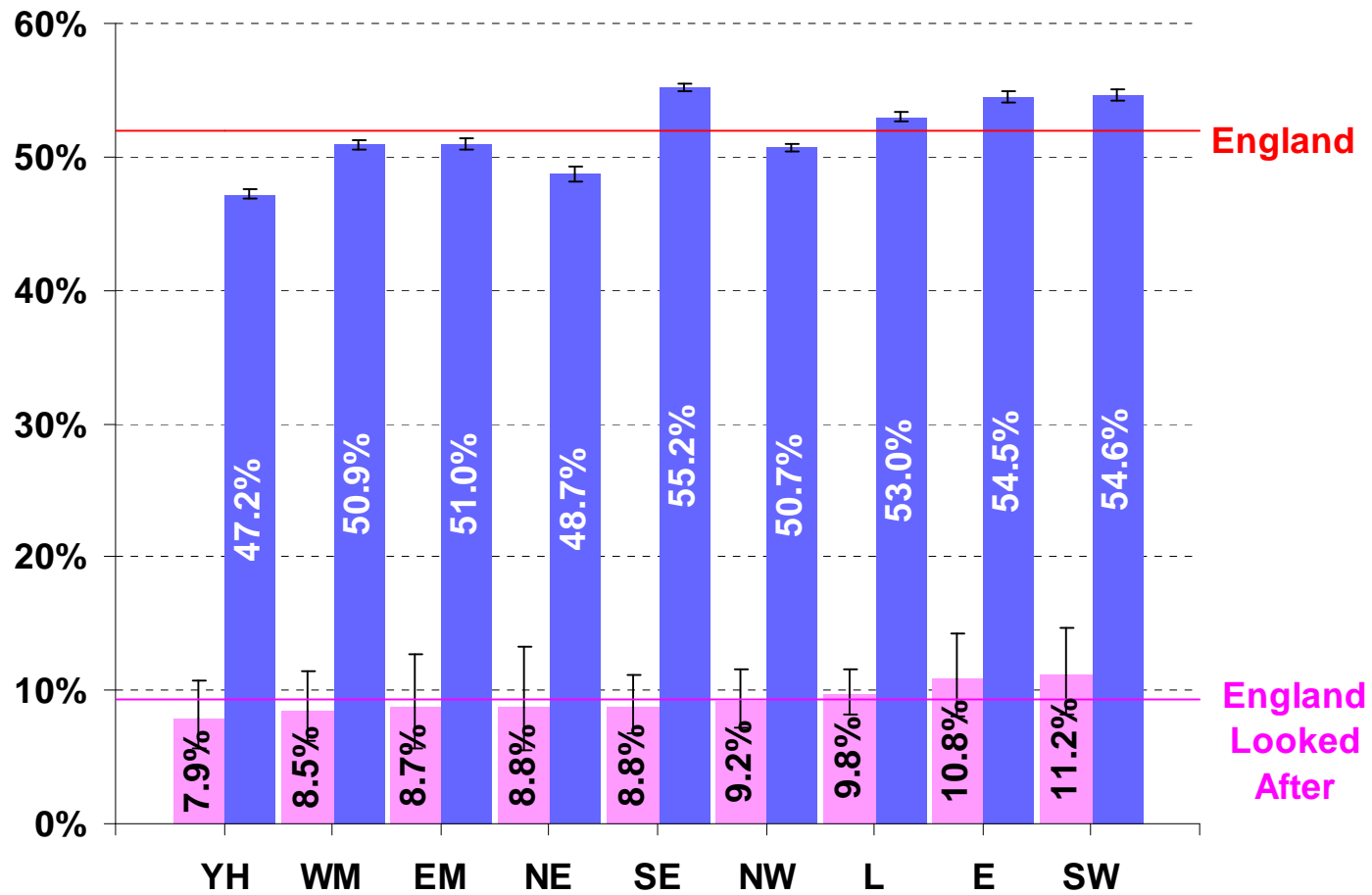


Source: Department for Education and Skills



## Other key determinants - Educational attainment:

The gap between looked after children and the population as a whole



Source: Department for Education and Skills



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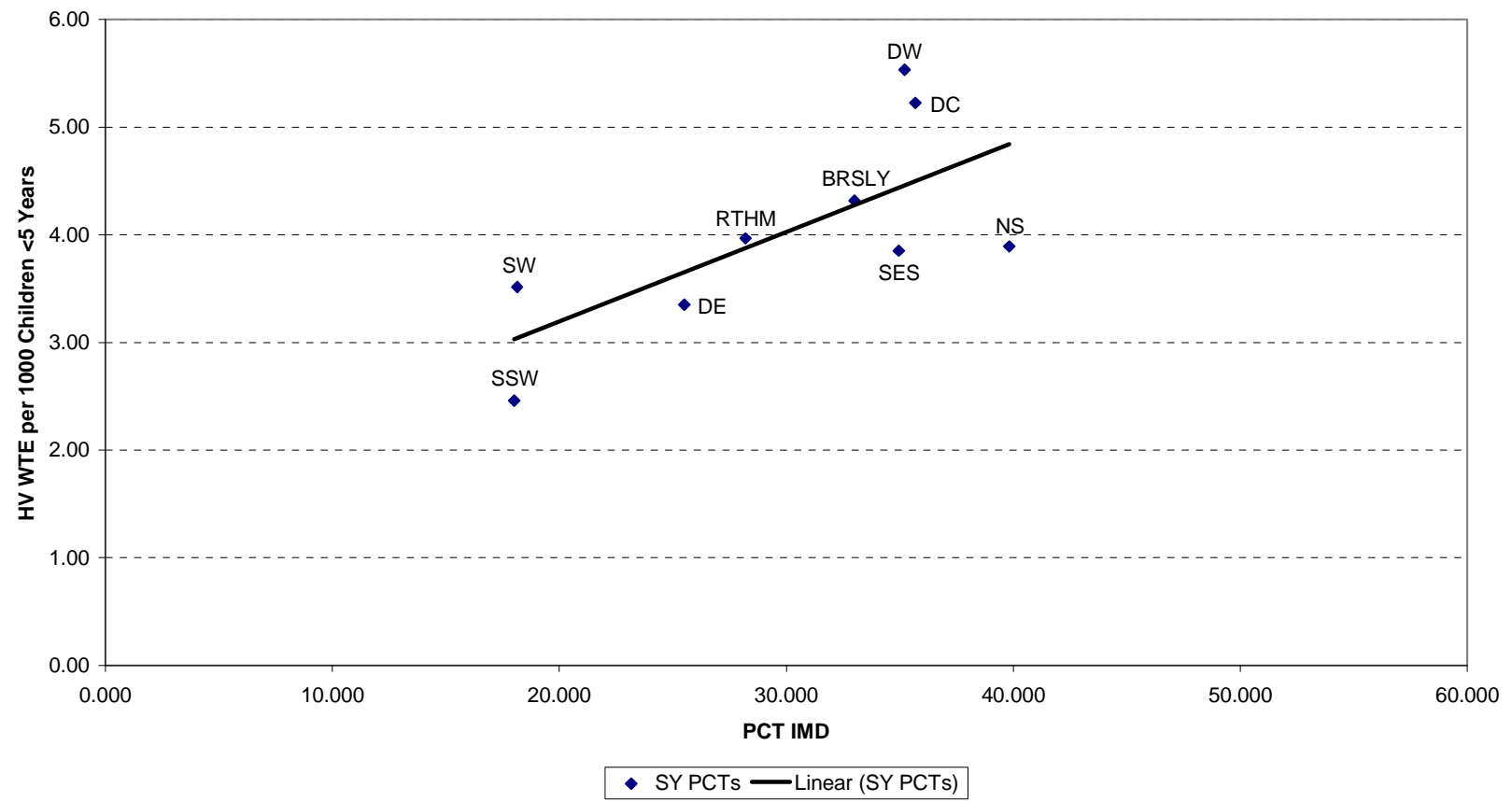
# Mapping current service provision



# Workforce analysis example - Health visitors:

Shows increasing provision with need

Health Visitor WTE per 1000 Children <5 years  
by Index of Multiple Deprivation in South Yorkshire PCTs

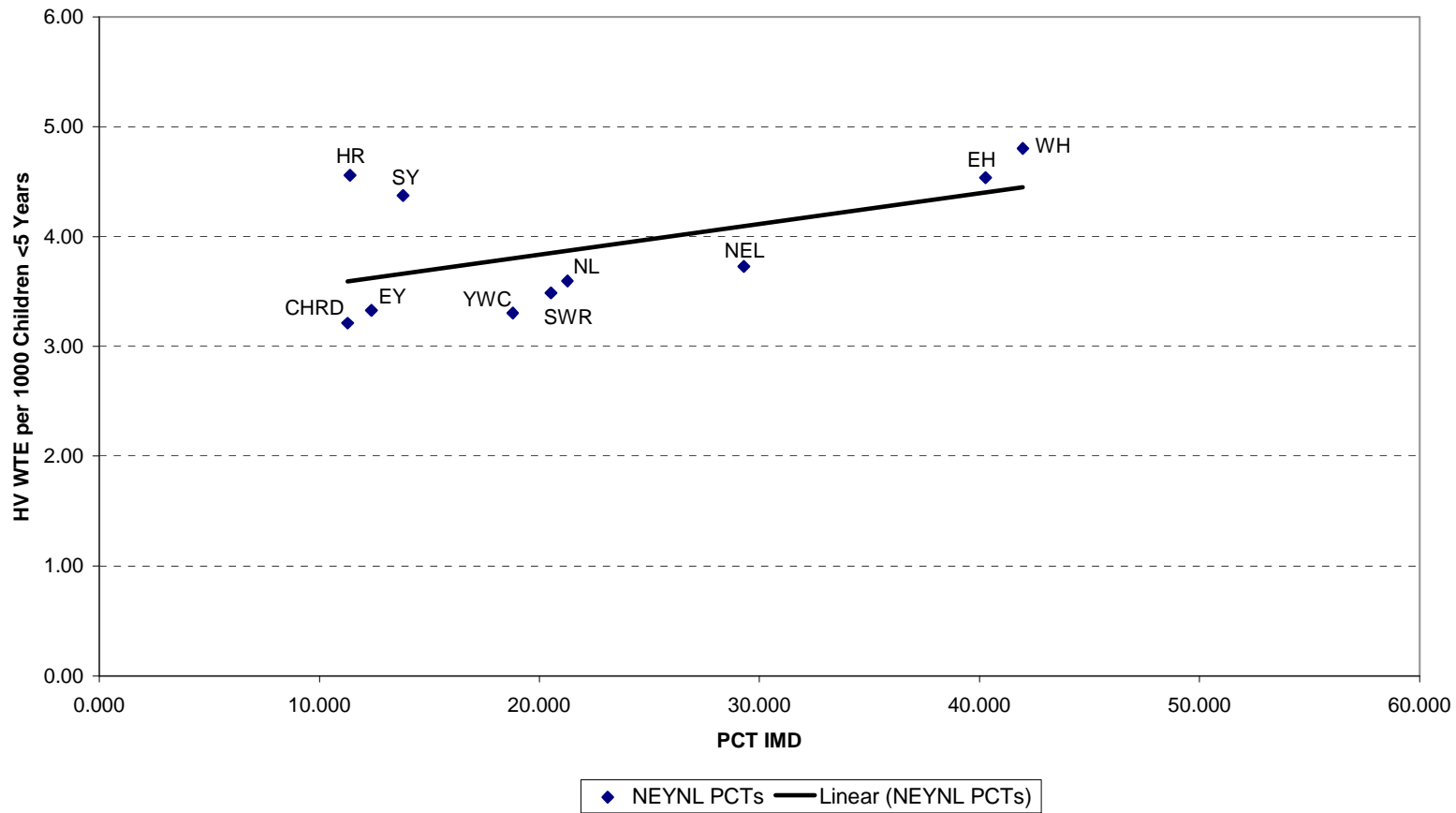




# Workforce analysis example - Health visitors:

Shows increasing provision with need

Health Visitor WTE per 1000 Children <5 years  
by Index of Multiple Deprivation in NEYNL PCTs

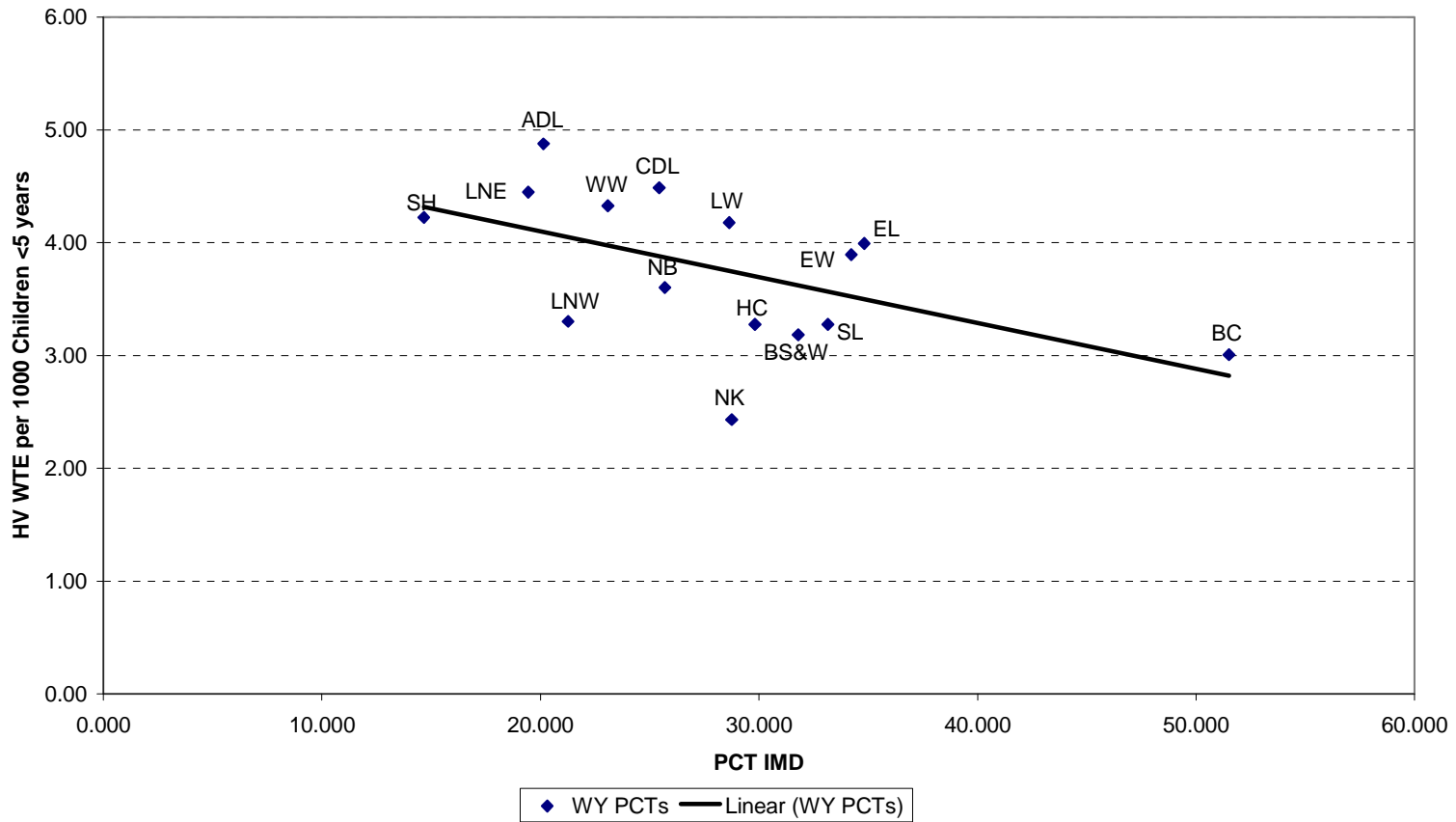




# Workforce analysis example - Health visitors:

Shows **DE**creasing provision with need

Health Visitor WTE per 1000 Children <5 years  
by Index of Multiple Deprivation in West Yorkshire PCTs





# Service mapping and improvement reviews: Healthcare Commission improvement review into services for children in hospital 2007+

<p>1: <b>Weak</b> - not meeting a number of key standards, many areas for improvement</p> <p>2: <b>Largely satisfactory</b>, but with a number of areas for improvement</p> <p>3: <b>Good</b></p> <p>4: <b>Excellent</b></p>	Overall review score	Emergency care environments accident and emergency, children's accident and emergency, walk-in centres, short-term assessment facilities	Day case care environments day case units or day case care on wards - child-only or mixed	Inpatient care environments children's or other hospital beds	Outpatient environments child-only outpatient departments or mixed outpatient departments	Emergency surgery general surgery, orthopaedic surgery, ear, nose and throat surgery and anaesthetics	Elective surgery general surgery, orthopaedic surgery, ear, nose and throat surgery and anaesthetics
Airedale NHS Trust	2	2	3	3	2	2	2
Barnsley Hospital NHS Foundation Trust	2	2	3	4	1	2	2
Bradford Teaching Hospitals NHS Foundation Trust	3	3	4	3	2	2	2
Calderdale And Huddersfield NHS Trust	2	2	2	4	2	2	2
Doncaster And Bassetlaw Hospitals NHS Foundation Trust	2	2	3	3	1	2	2
Harrogate And District NHS Foundation Trust	2	2	2	4	2	2	2
Hull And East Yorkshire Hospitals NHS Trust	2	3	1	3	1	2	4
Leeds Teaching Hospitals NHS Trust	2	1	2	3	2	2	3
Mid Yorkshire Hospitals NHS Trust	2	1	1	3	1	2	2
Northern Lincolnshire And Goole Hospitals NHS Trust	2	1	2	4	2	2	2
Rotherham General Hospitals NHS Trust	3	4	3	3	2	2	2
Scarborough And North East Yorkshire Health Care NHS Trust	1	1	1	1	1	2	2
Sheffield Children's NHS Trust	4	4	4	3	4	2	4
York Hospitals NHS Trust	2	2	1	3	2	2	3



## Next steps

- More detailed analysis for emerging focus areas
- Develop measurement framework linked to patient centred pathways