

Imperial's place in society: the local population

Society and Health, Foundations of Clinical Practice

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Learning outcomes

- To be familiar with basic information about the local population
- To describe the profile and diversity of West London
- To describe the broad variation in health outcomes in the local population
- To recognise the major ways of categorising the local population

Where does Imperial fit in the world?

- One of the top Universities
 - 3rd in Europe and 5th in the world for clinical and health
 - 1st in Europe and 6th in the world for research
 - In 2008 Research Assessment exercise Imperial had highest proportion of world-leading and internationally excellent research
- ~14000 students from 126 countries
- 6750 employees
- Science, engineering, medicine, business
- Significant income from industry

Faculty of Medicine

- Established in 1997
- Links to several hospitals and NHS trusts
- Formal partnership of the Academic Health Science Centre

Imperial Academic Health Science Centre

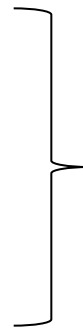


ICHT is the largest NHS trust in the UK

Respect our patients and colleagues
Encourage **innovation** in all that we do
Provide the highest quality **care**
Work together for the **achievement** of outstanding results
Take **pride** in our success

Imperial College campuses

- Central Middlesex Hospital
- Chelsea and Westminster
- Northwick Park
- Royal Brompton
- Charing Cross
- Hammersmith
- St Mary's



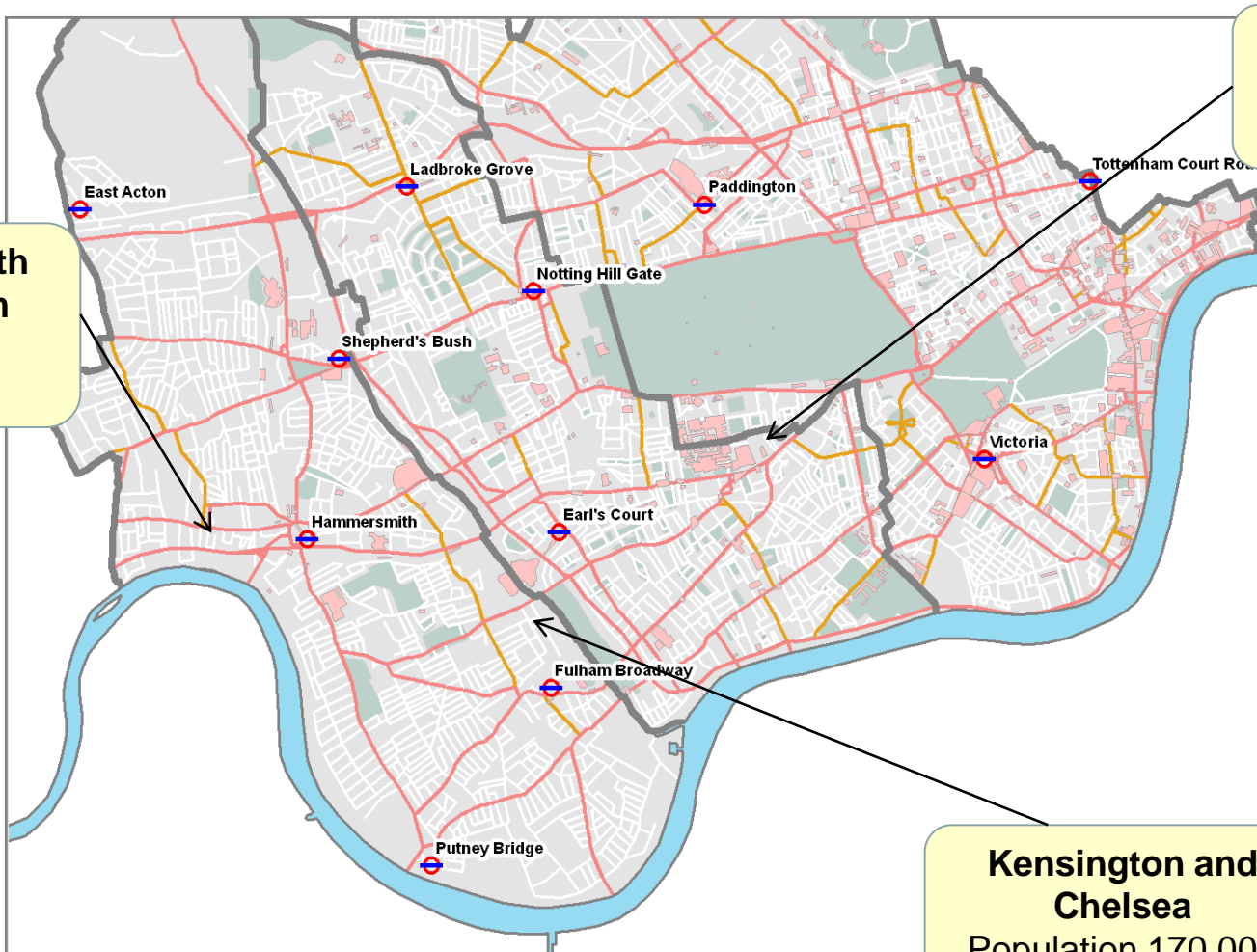
Part of ICHT

Who does Imperial serve?*

- Local population
- “Inner North West London”, a merger of 3 local primary care trusts (PCTs)
 - Westminster
 - Kensington and Chelsea
 - Hammersmith and Fulham
- Plus referrals from rest of NW London, Central London and beyond

*mainly talking about Imperial College Healthcare Trust

Inner North West London



Westminster
Population
250,000

**Hammersmith
and Fulham**
Population
170,000

**Kensington and
Chelsea**
Population 170,000

Discuss and
write down four
key features of
the local
population



- Young
- Unequal
 - Very wealthy
 - Very poor
- Diverse
 - Ethnicity
 - Country of birth
- Mobile



Inner NW London

- Densely populated ~ 590,000 people* in 19 square miles
- Huge variation in wealth and cultural background
- Significant daytime population of workers and tourists, particularly Westminster

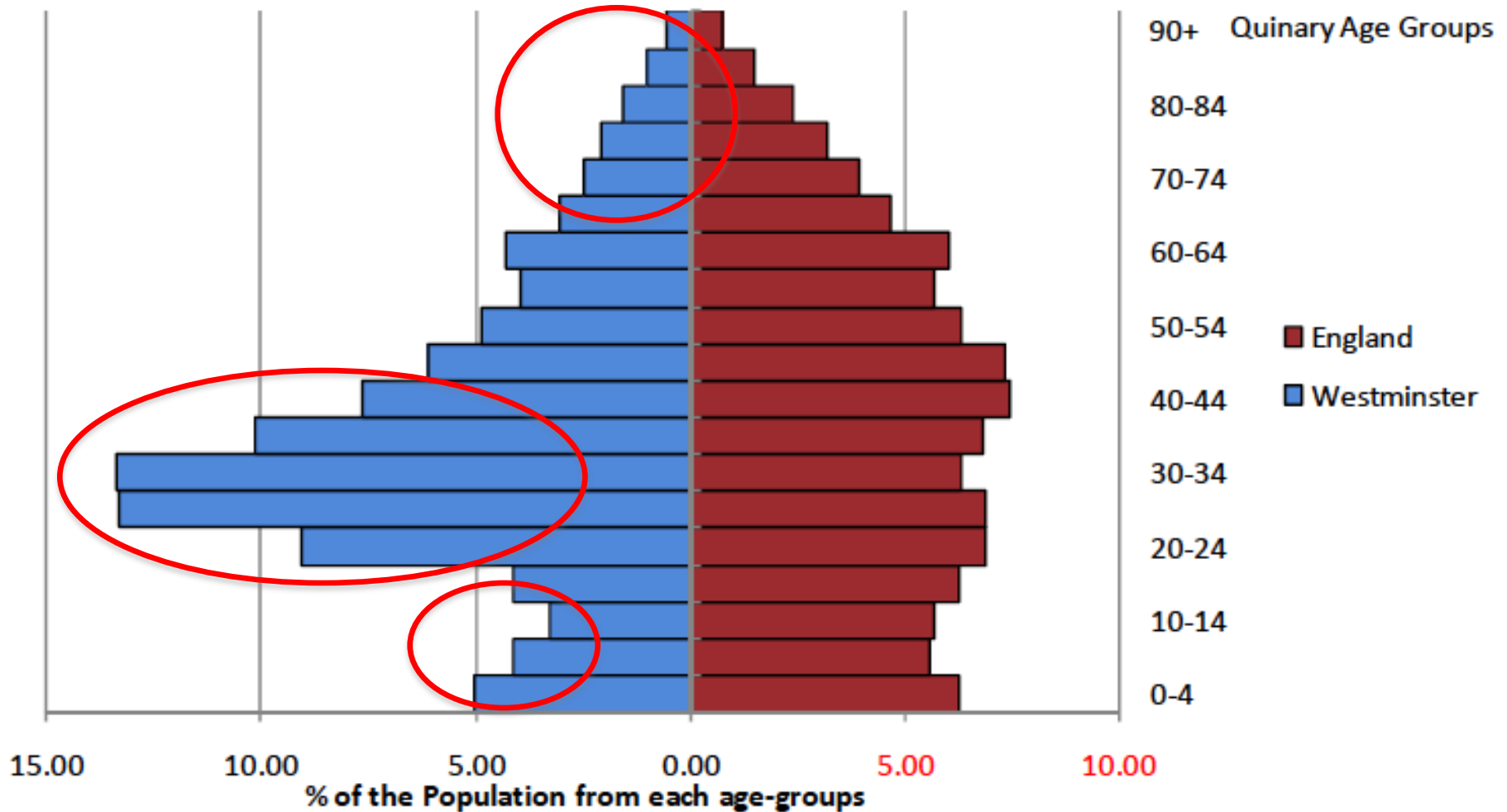
*mid-2009 population estimates

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Age structure (Westminster)

Population Profile of Westminster compared to England - MYE 2010

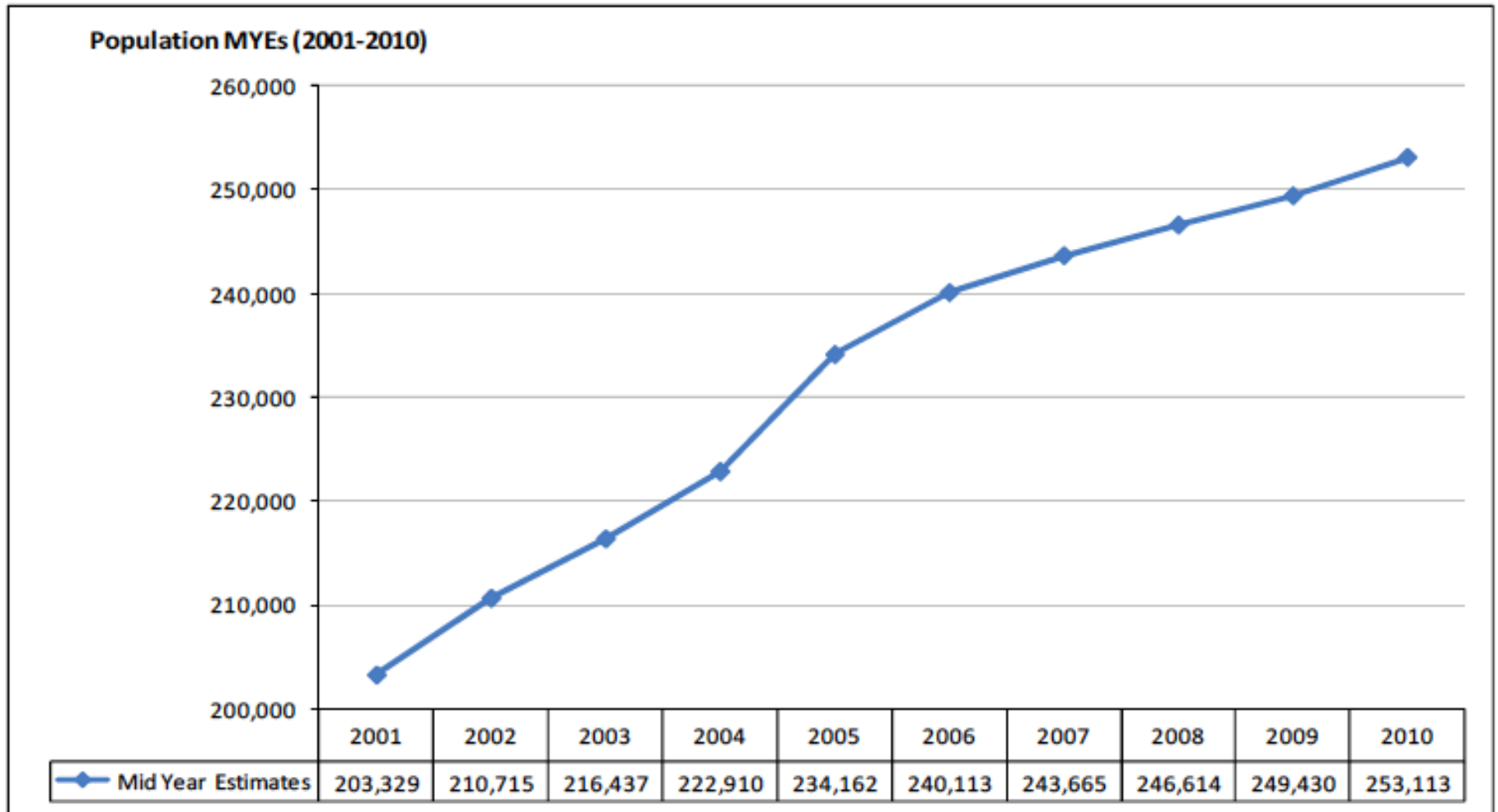


Age structure (Hammersmith and Fulham)

- High proportion of young adults
 - 45% of population aged 20 – 39
- People living alone
 - 42% of households single adults
 - 48% of older people live alone
 - 10% of households are lone parent families
- Implications for health
 - high burden of mental illness, alcohol and drug misuse
 - People do not have informal care available

Local population growing quickly

Figure 26: Mid Year Population Estimates for Westminster, 2001-2010



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Inequalities

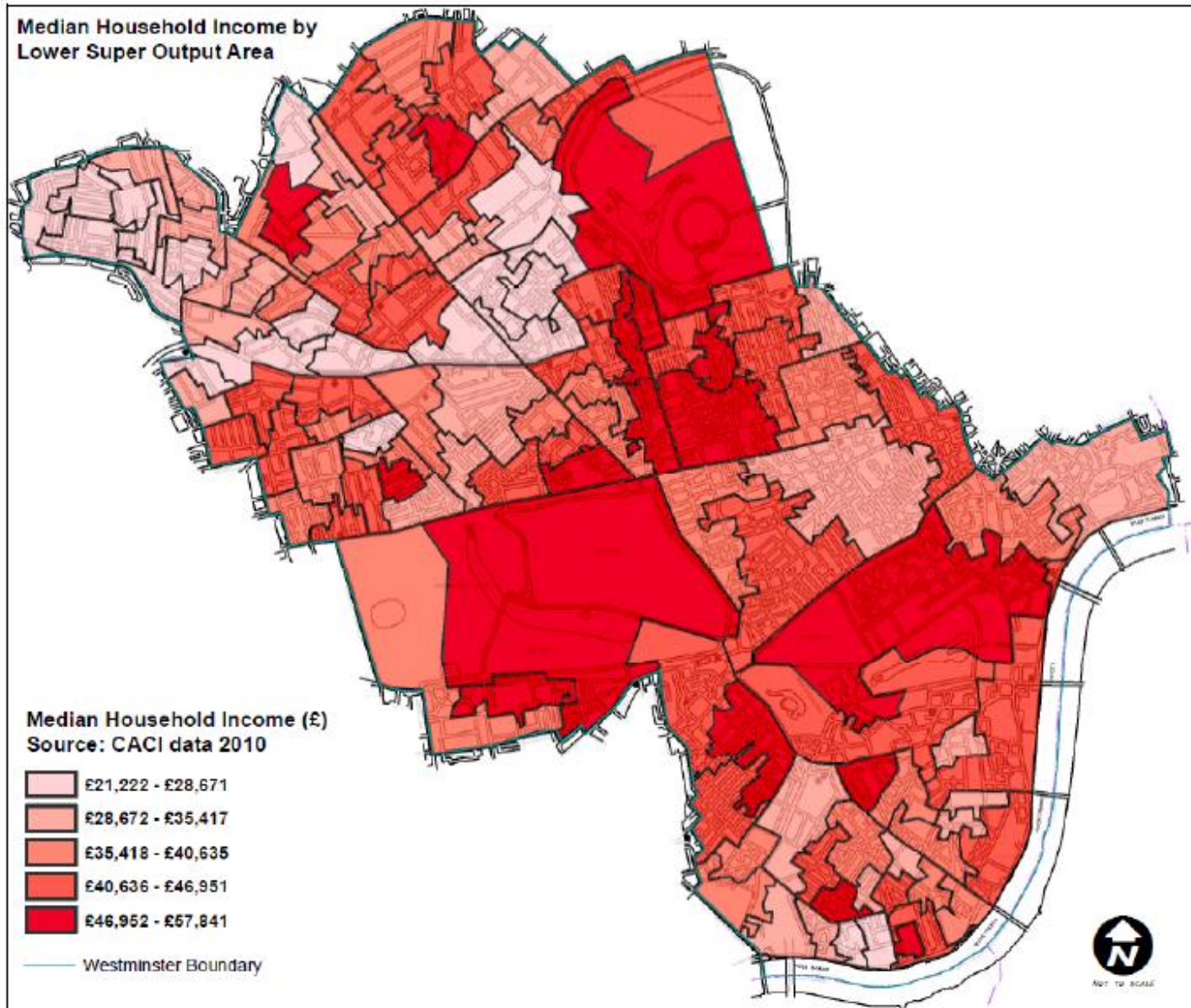
- High median full time income
 - £46,000 pa (Westminster and K&C) – highest in UK)
 - £26,000 nationally
- Average house price £750,000 K&C
- BUT
- Parts of the local areas are among the most deprived in the country
- 48% of children live in poverty (Westminster)

Segmentation

- Two largest population groups in (H&F):
 - “Prosperous, mobile, single young professionals”
 - “Deprived families in social housing”

Source: Mosaic Customer Segmentation, JSNA H&F 2011

Household income, 2010 (Westminster)



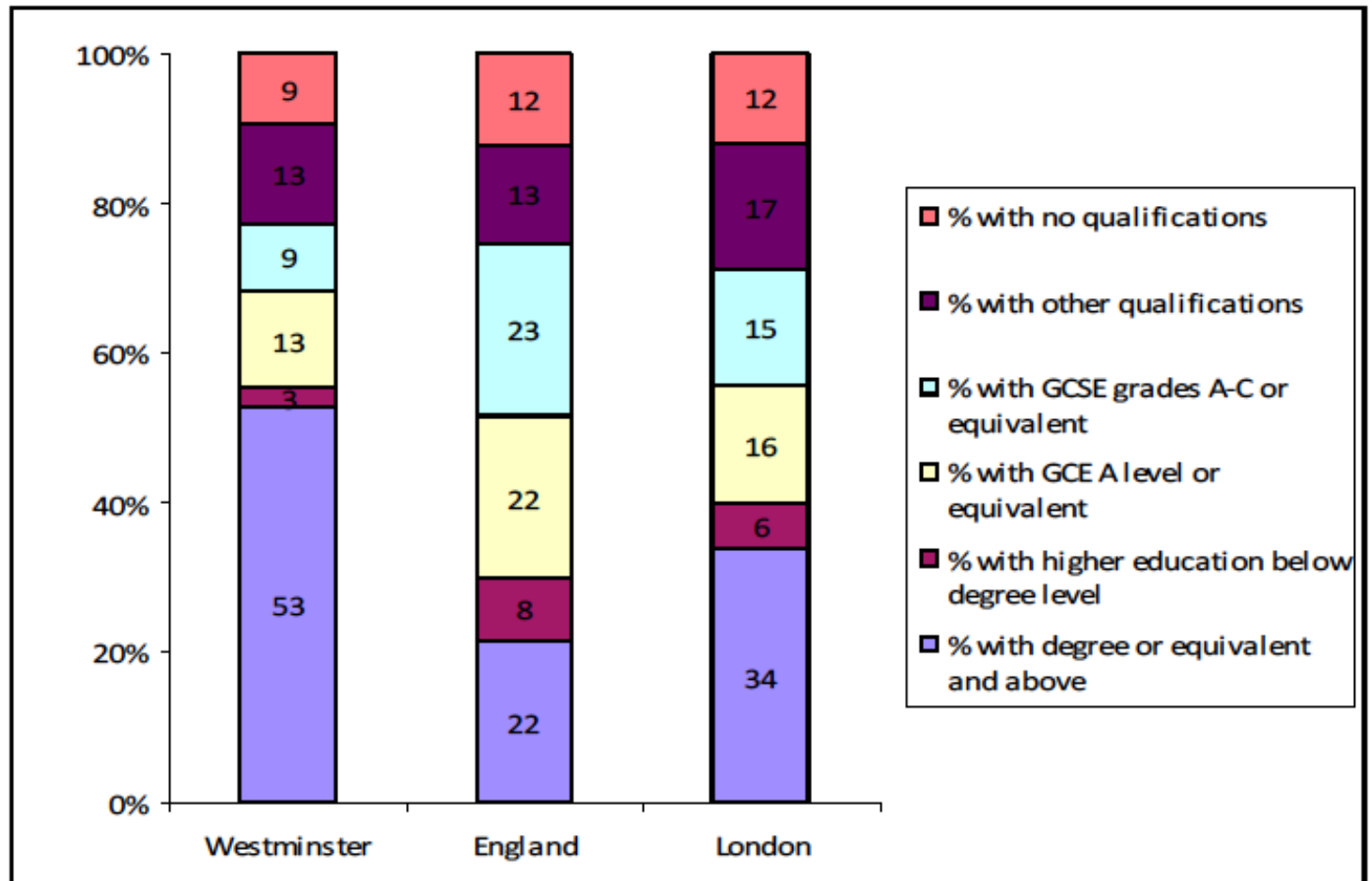
Poorest areas in north west of borough (Harrow Road, Queens Park, Westbourne, Church Street) where household income is £15,000 less than average for Westminster

Measurement of socioeconomic status

- Poverty – income and expenditure
- Social class – usually based on occupation
- Deprivation – many levels
 - Resources, education, relative position
 - Local environment

Education

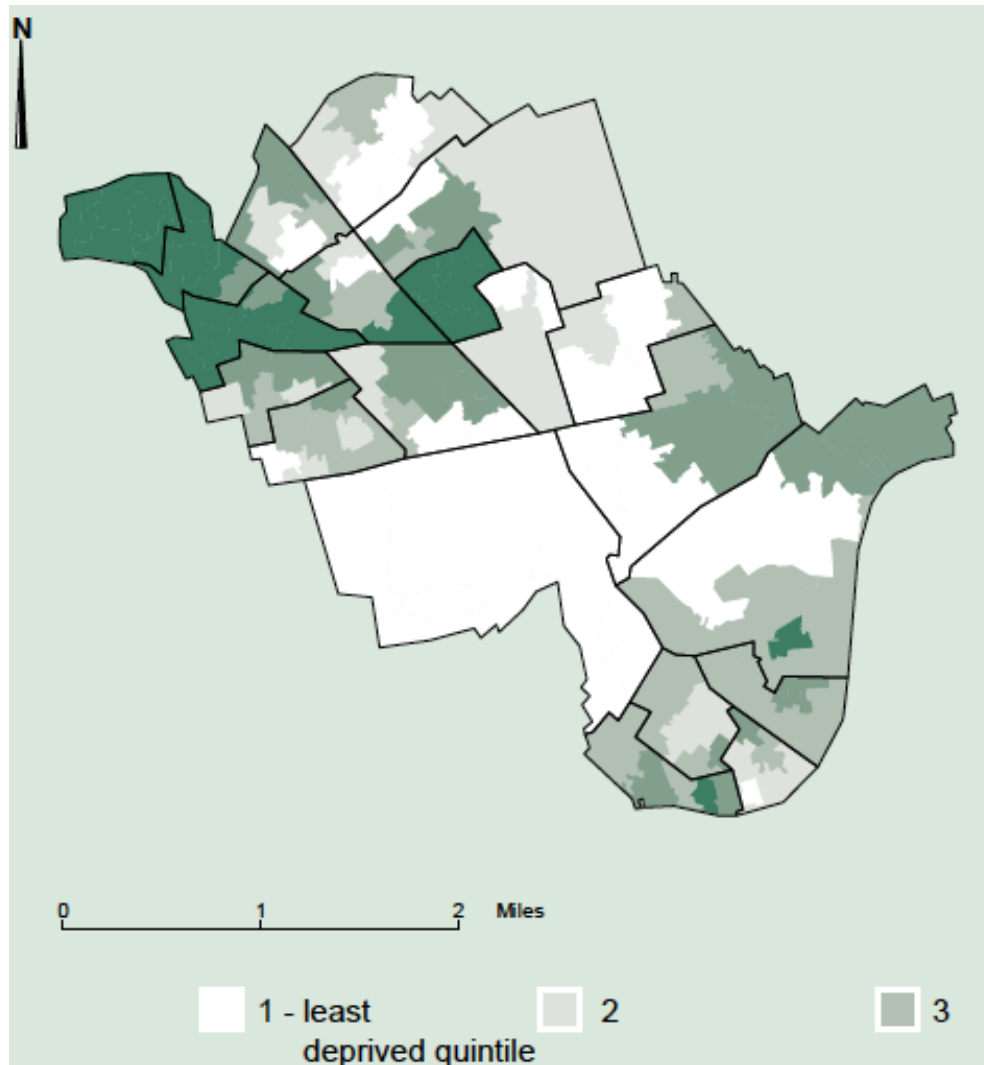
- 53% of residents have degree-level education



Index of Multiple Deprivation (2010)

- Seven domains
 - Income
 - Employment
 - Health
 - Education
 - Housing and services
 - Living environment
 - Crime
- Applied to areas
- Lower super output areas (LSOAs)
- About 1500 people
- Converted into relative deprivation

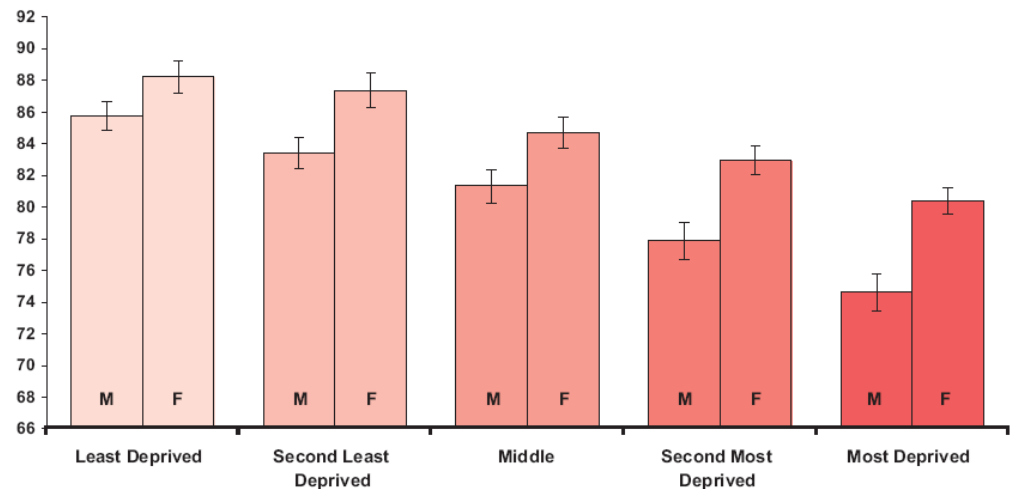
Deprivation, Westminster 2010



Inequalities in health

- Life expectancy for men varies between most deprived and least deprived areas
- Variation is highest in the UK (Westminster)
 - 16.6 years difference for men
 - 9 years lower for women

Figure 3.16 Inequalities in life expectancy for men and women who live in areas with different levels of deprivation within Westminster

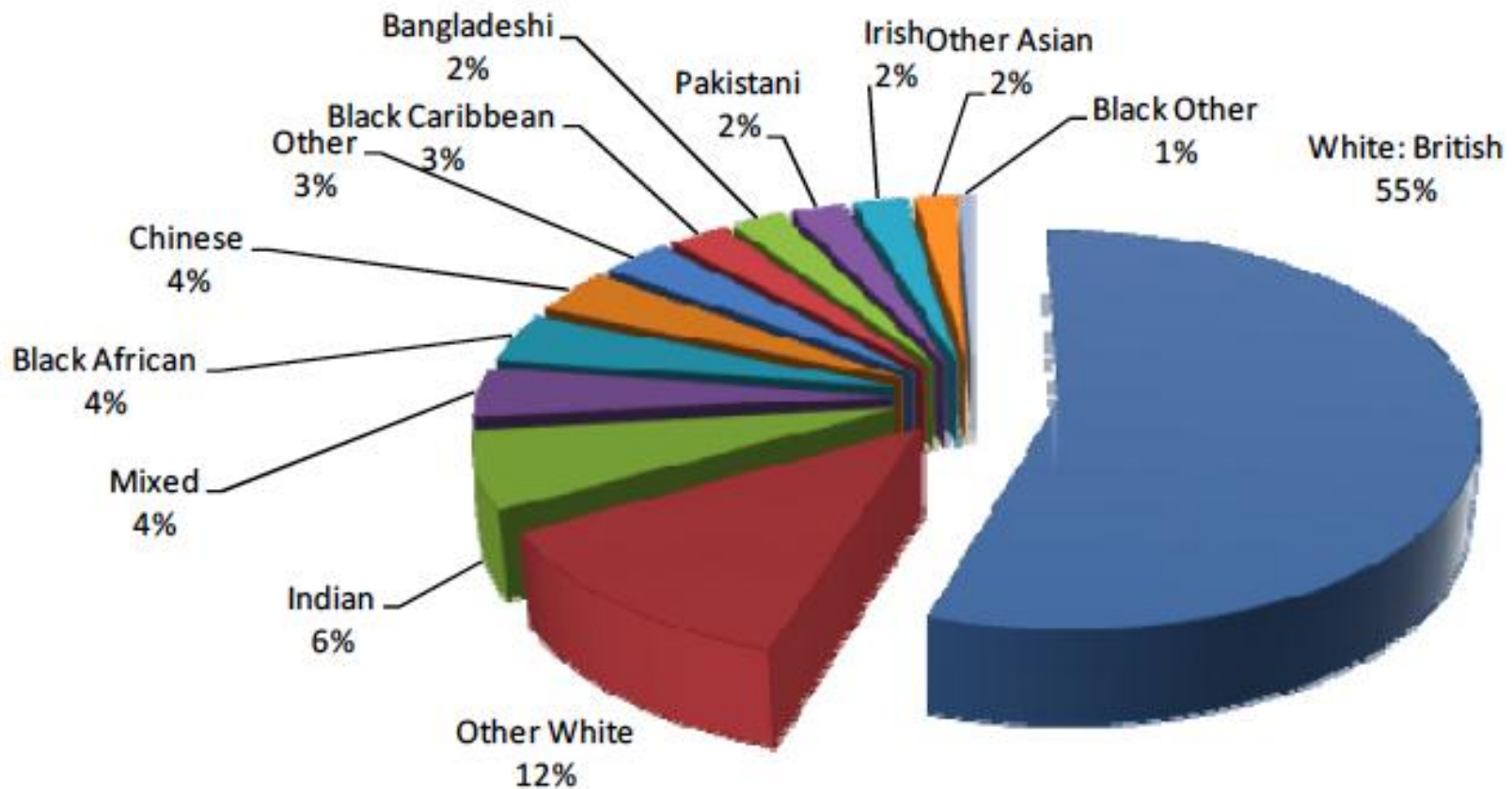


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Diversity - ethnicity

Westminster population by ethnicity MYE 2009

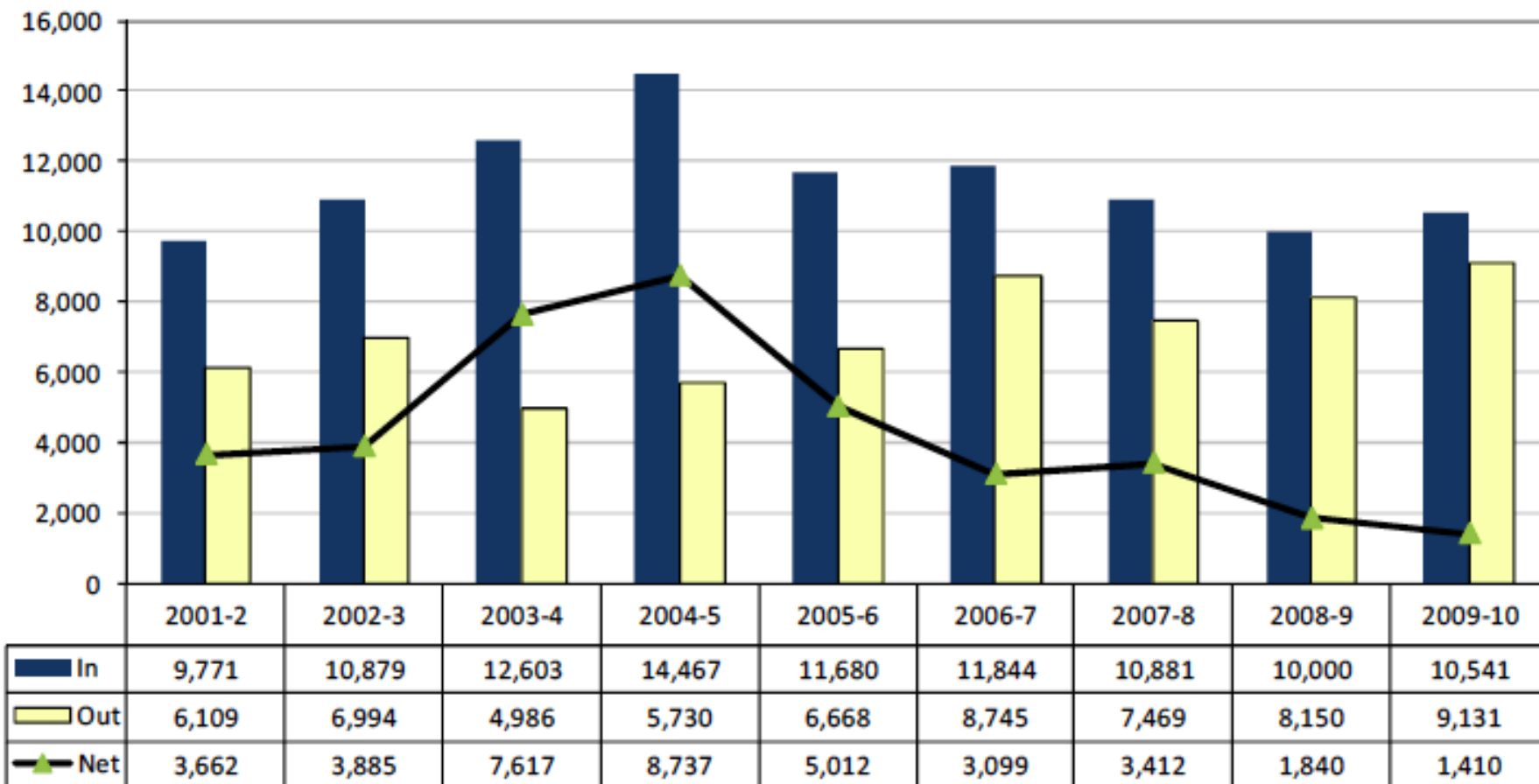


Country of birth

- Migration
 - 52% of resident population born overseas (46% H&F)
 - 66% children don't speak English as first language (W)

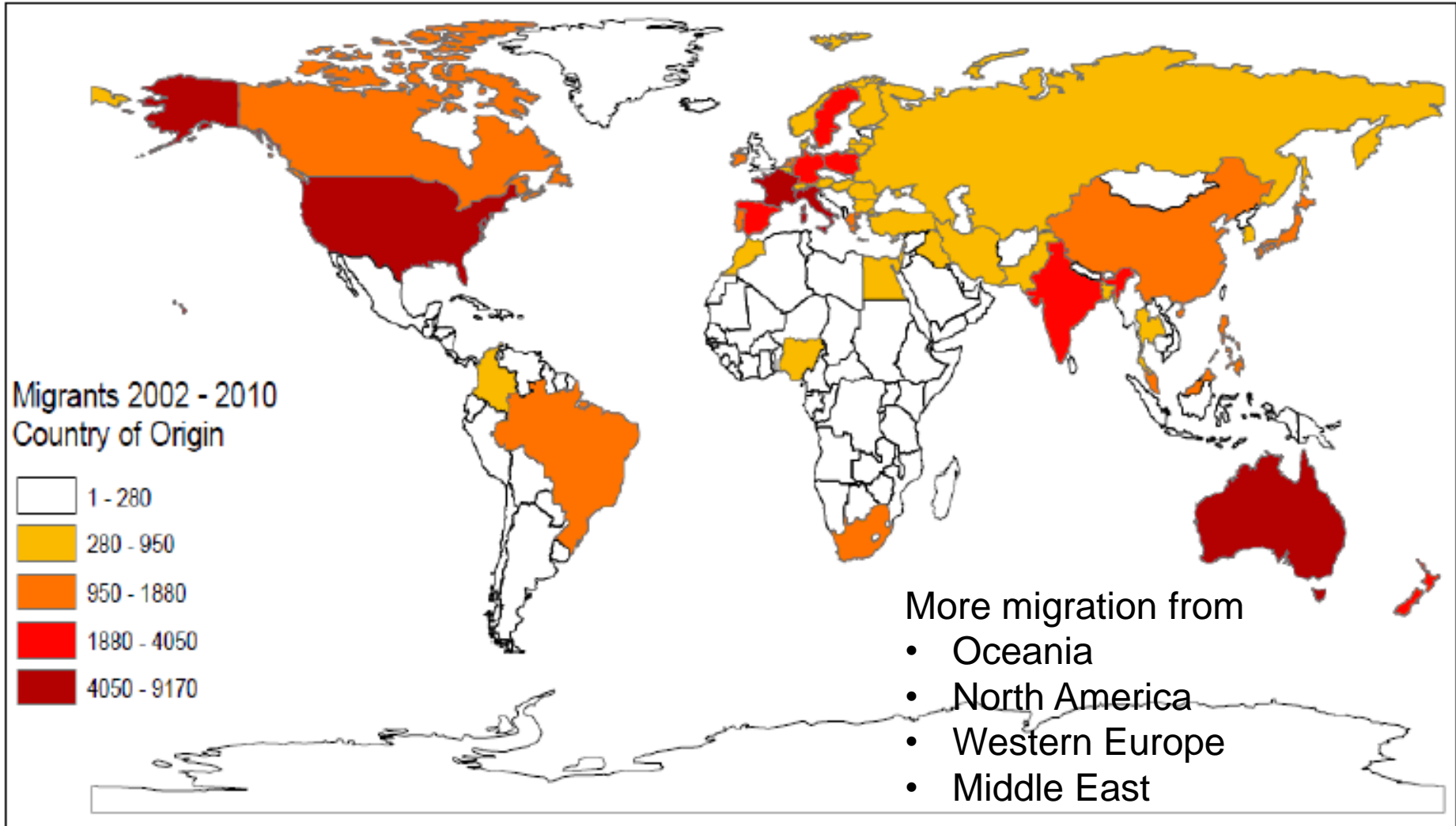
Figure 27: International Migration to Westminster

Migration (International) (2001-2010)



Source: Components of change, (ONS, 2010³)

Westminster migrants 2002-10 – source countries



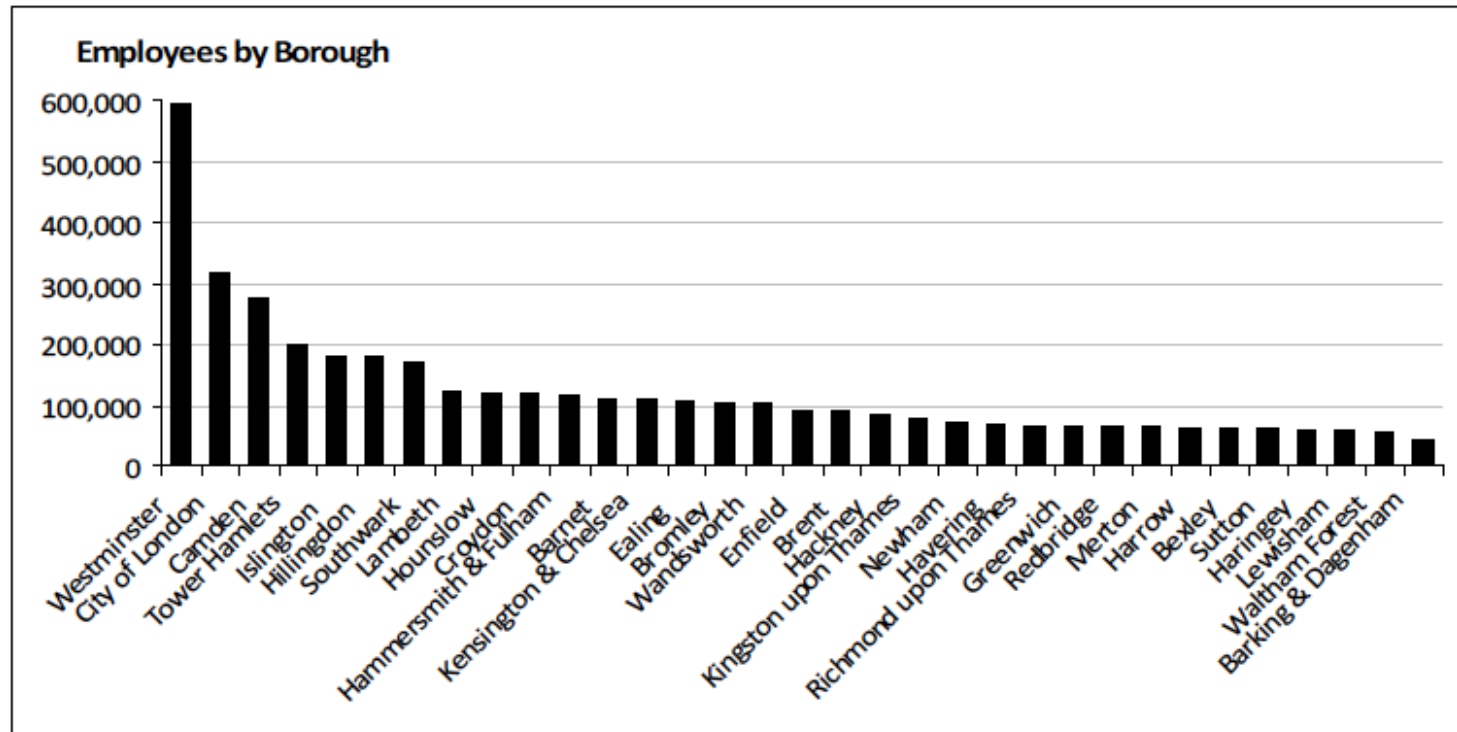
Source: National Insurance Registrations, DWP 2010

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Westminster population changes daily

- Resident population approximately 250,000
- Daily visitors 750,000
- People employed 600,000 – largest in London



Source: BRES, (ONS 2009²)

Short term mobility

- Short term migrants – 63,000 in 2007 (W)
- Irregular migrants – estimated 20,000 (W)
- Seasonal migrants
 - Tourists
 - Students
- 20% of households move each year (H&F)

Impact on health

- Health needs reflect population structure
 - age
 - origin
 - ethnicity
- High level of need related to poverty and inequality
 - Obesity (23% of year 6 children in H&F)
 - Smoking (25% H&F)
 - Harmful drinking

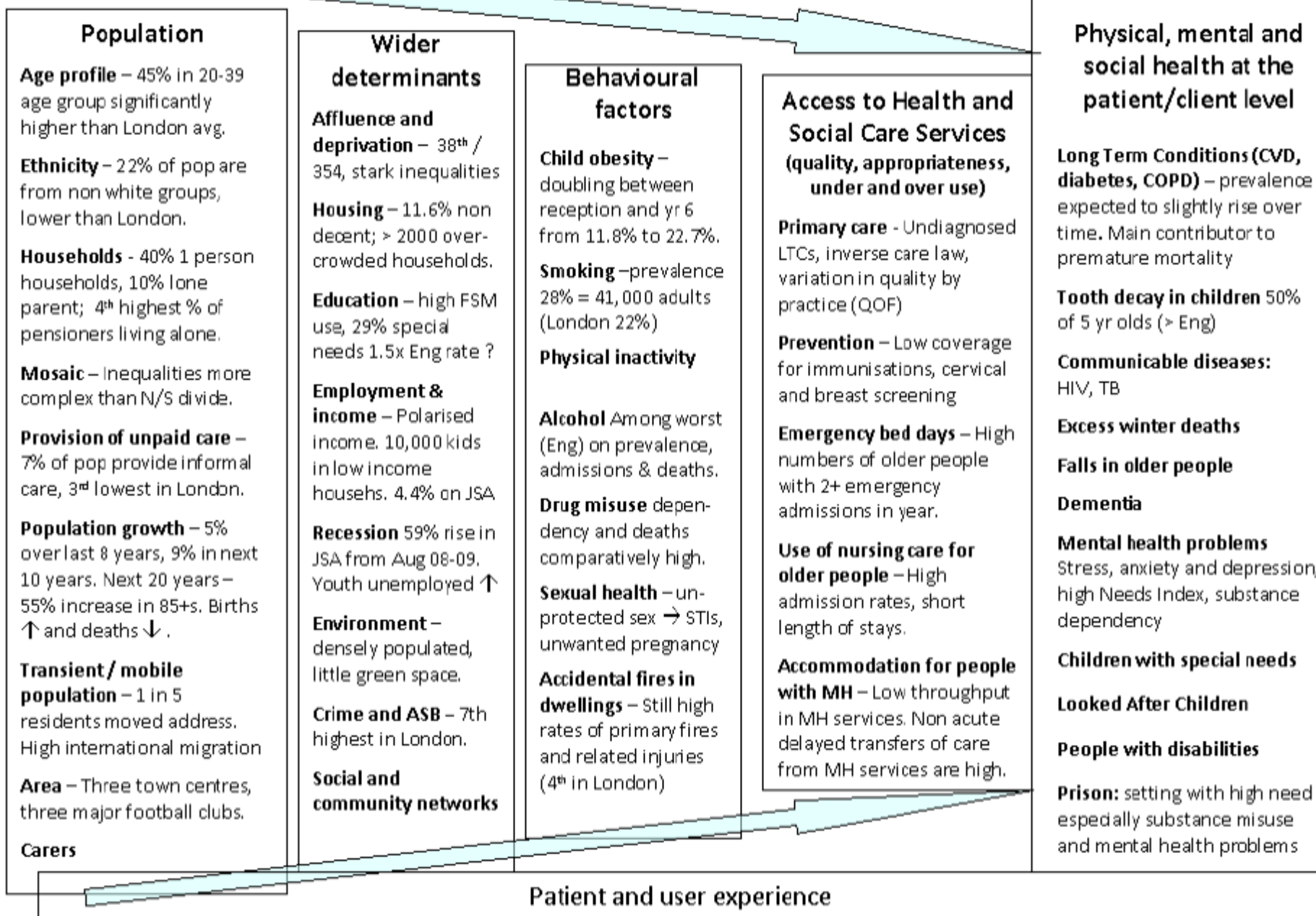
Impact on health services

- Access
 - Who has rights
 - Who has knowledge
- Communication (language, culture)
- Health seeking behaviours (high levels of use of A&E)
- Care (limited informal networks)

Inequalities in health care delivery: elective surgery*

- Coronary angioplasty
 - Patients from more deprived areas were almost twice as likely as those from more privileged areas (OR 1.66) to have a prolonged stay in hospital
 - Women were almost twice as likely as men (odds ratio 1.87) to be readmitted to hospital within 28 days
- Bariatric surgery
 - Black African and Black Caribbean patients were 2.45 times more likely (than white patients) to have a long wait for surgery
- Hip replacement
 - Patients over 85 yrs old were 8 times more likely (than those under 65) to be readmitted within 28 days

The 'causes of the causes' – pathways to ill health and well-being



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Impact on you?

- Need to understand social and demographic factors
- Sensitive to difference
- Great experience to learn medicine in a global city

Future sessions

- Inequalities
- Social determinants of health