Imperial College London

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 College Healthcare Imperial College Healthcare NHS Trust

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

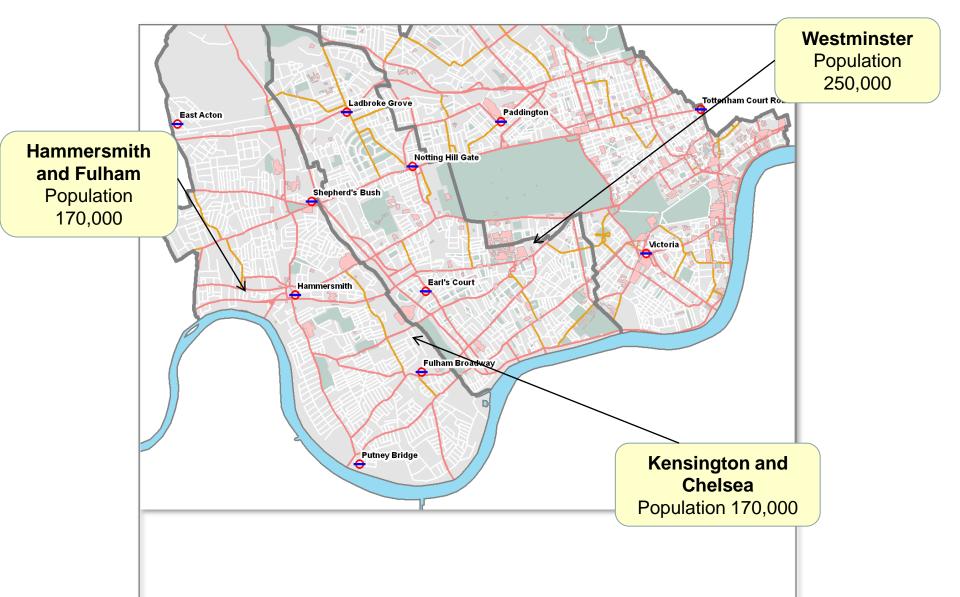
Part of ICHT

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



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

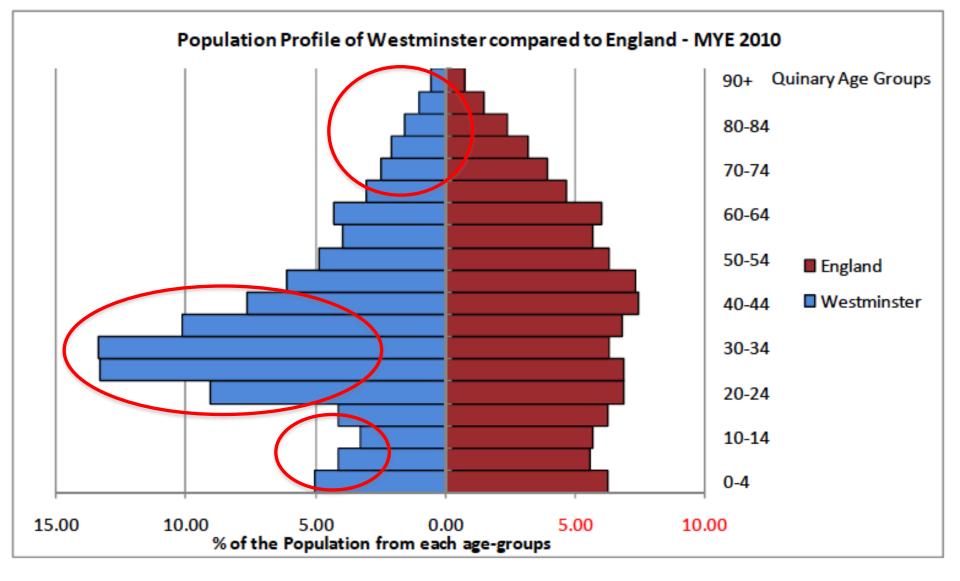
- Densely populated ~ 590,000 people* in 19 square miles
- Huge variation in wealth and cultural background
- Significant daytime population of workers and tourists, particularly Westminster

Young

- UnequalVery wealthy
 - Very poor
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Age structure (Westminster)

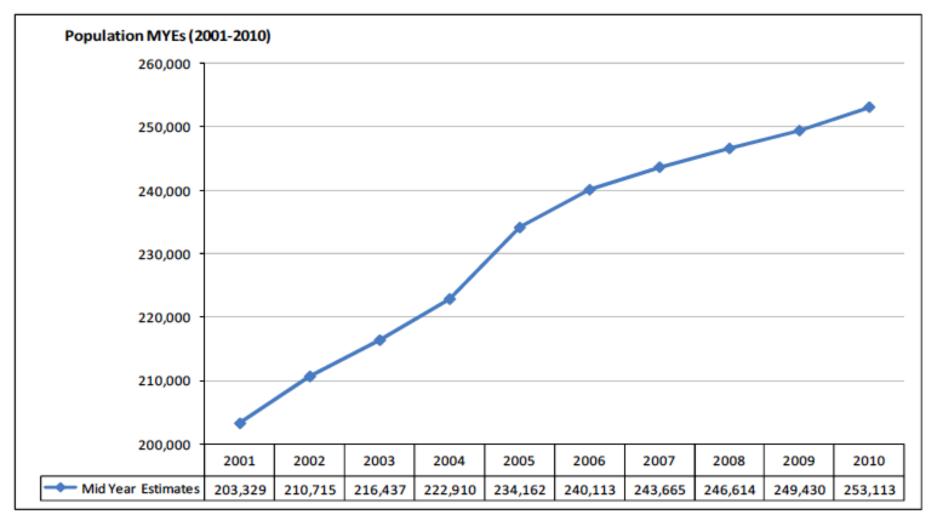


Age structure (Hammersmith and Fulham)

- 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



Source: ONS, 2011

• Young

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Inequalities

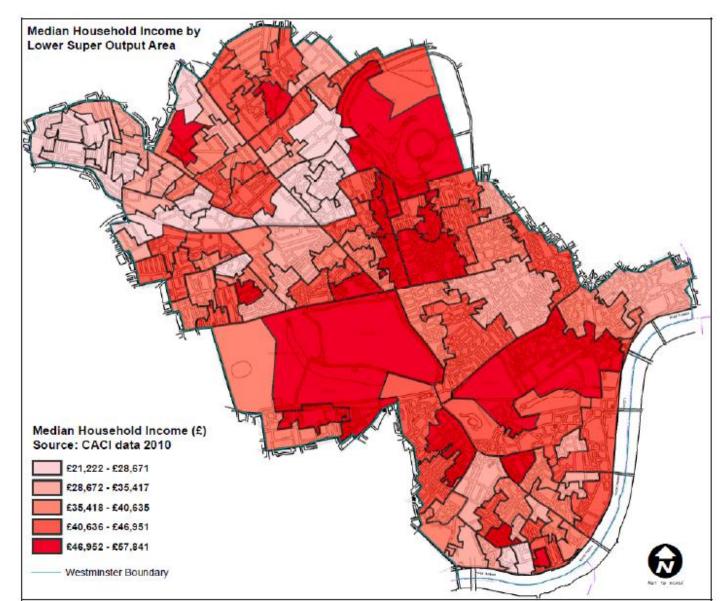
- High median full time income
 - £46,000 pa (Westminster and K&C) highest in UK)
 - £26,000 nationally
- Average house price £750,000 K&C
- BUT
- Parts of the local areas are among the most deprived in the country
- 48% of children live in poverty (Westminster)

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)



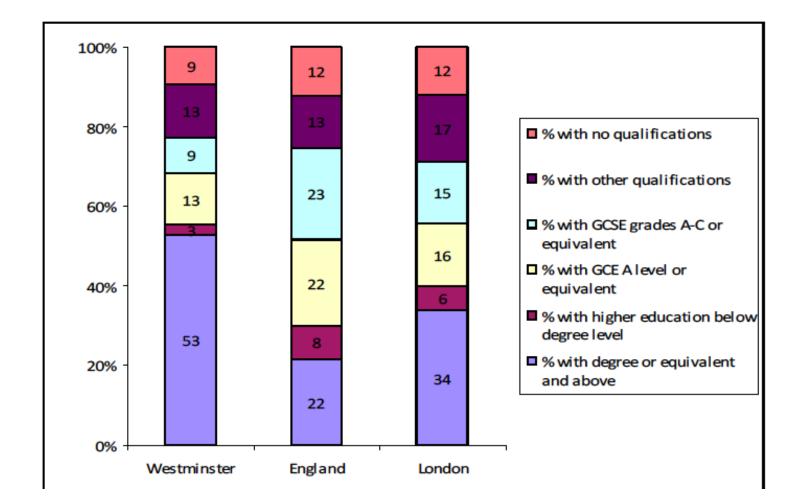
Poorest areas in north west of borough (Harrow Road, Queens Park, Westbourne, Church Street) where household income is £15,000 less than average for Westminster

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

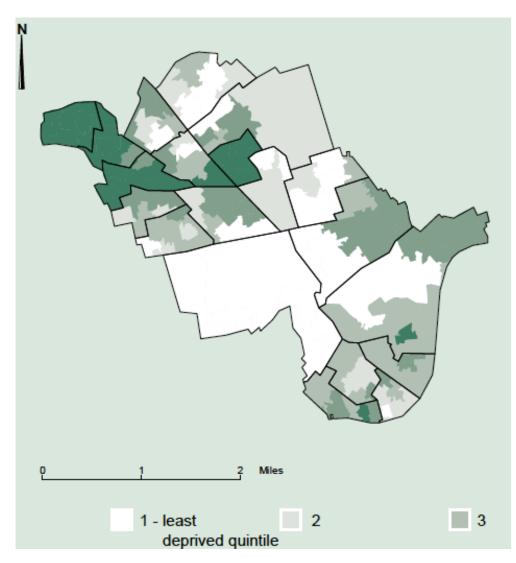


Index of Multiple Deprivation (2010)

- 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

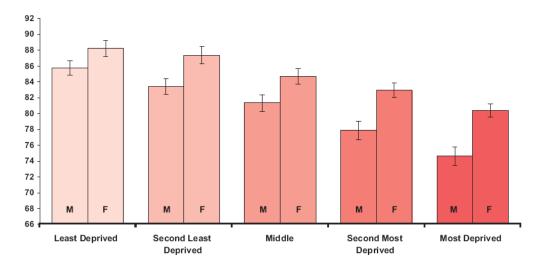
Deprivation, Westminster 2010



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

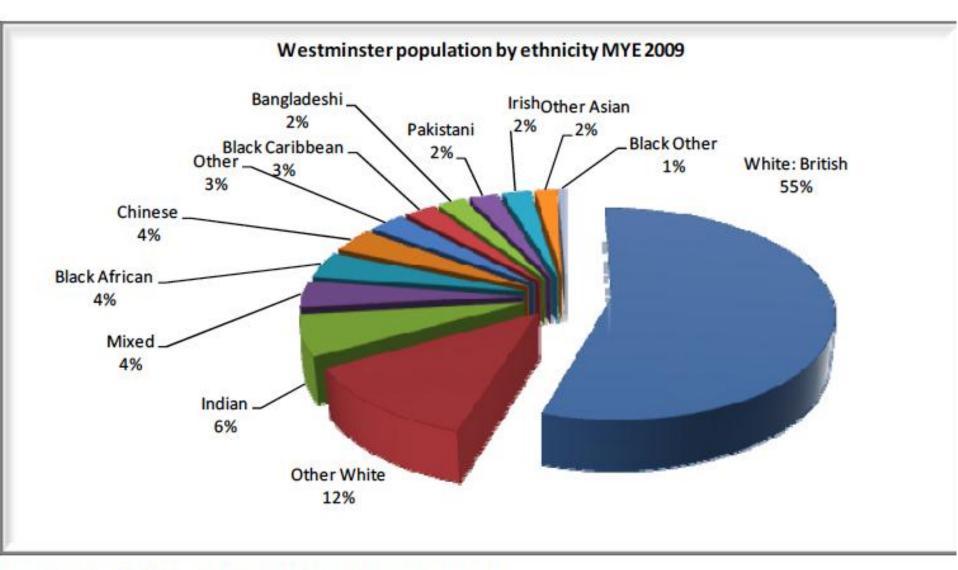
Figure 3.16 Inequalities in life expectancy for men and women who live in areas with different levels of deprivation within Westminster



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Diversity - ethnicity

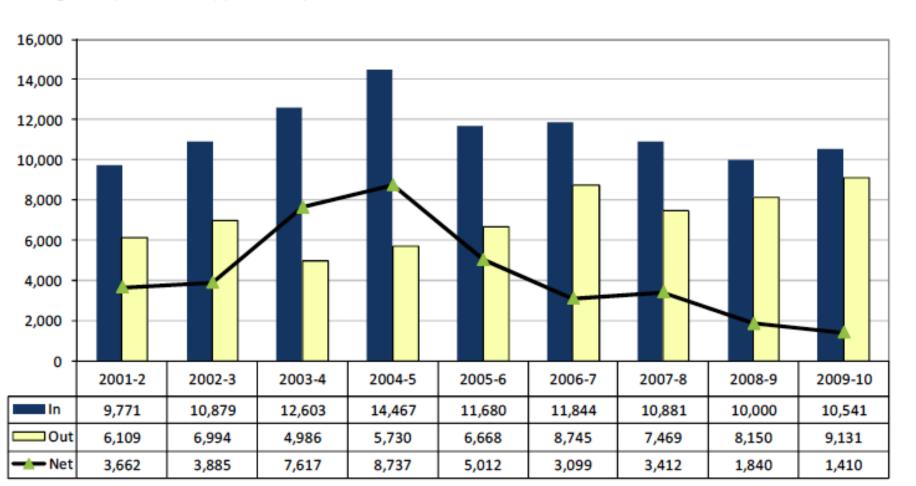


Source: ONS, Mid Year Ethnic Population Estimates, 2009

Country of birth

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

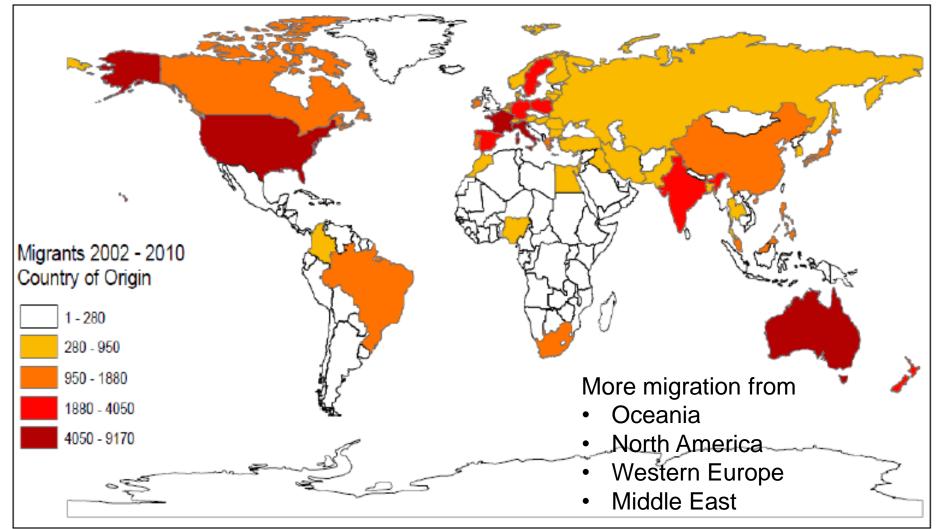
Figure 27: International Migration to Westminster



Migration (International) (2001-2010)

Source: Components of change, (ONS, 2010³)

Westminster migrants 2002-10 – source countries



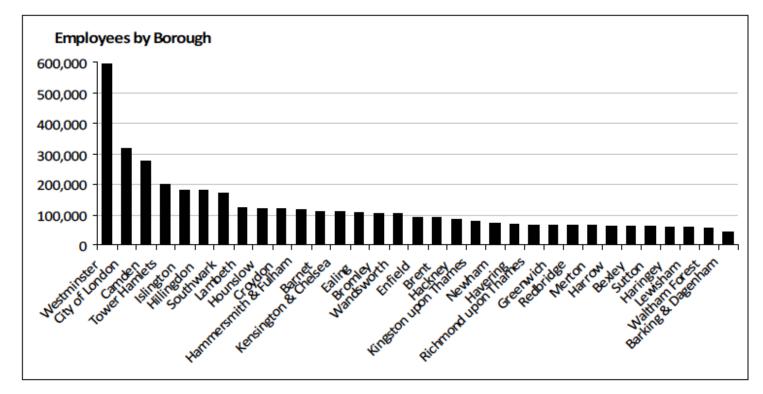
Source: National Insurance Registrations, DWP 2010

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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

			/	
Population	Wider			Physical, mental and
Age profile – 45% in 20-39	determinants	Behavioural		social health at the
age group significantly higher than London avg.	Affluence and	factors	Access to Health and	patient/client level
Ethnicity – 22% of pop are from non white groups, lower than London. Households - 40% 1 person households, 10% lone parent; 4 th highest % of	deprivation – 38 th / 354, stark inequalities Housing – 11.6% non decent; > 2000 over- crowded households. Education – high FSM use, 29% special	Child obesity – doubling between reception and yr 6 from 11.8% to 22.7%. Smoking –prevalence 28% = 41,000 adults (London 22%)	Social Care Services (quality, appropriateness, under and over use) Primary care - Undiagnosed LTCs, inverse care law, variation in quality by practice (QOF)	Long Term Conditions (CVD, diabetes, COPD) – prevalence expected to slightly rise over time. Main contributor to premature mortality Tooth decay in children 50% of 5 yr olds (> Eng)
pensioners living alone. Mosaic – Inequalities more	needs 1.5x Engrate ?	Physical inactivity	Prevention – Low coverage for immunisations, cervical and breast screening	Communicable diseases: HI∨, TB
complex than N/S divide. Provision of unpaid care – 7% of pop provide informal care, 3 rd lowest in London.	income – Polarised income. 10,000 kids in low income	Alcohol Among worst (Eng) on prevalenœ, admissions & deaths.	Emergency bed days – High numbers of older people with 2+ emergency	Excess winter deaths Falls in older people
Population growth – 5%	househs. 4.4% an JSA Recession 59% rise in	Drug misuse depen- dency and deaths	admissions in year.	Dementia
over last 8 years, 9% in next 10 years. Next 20 years – 55% increase in 85+s. Births 个 and deaths ↓.	JSA from Aug 08-09. Youth unemployed 个 Environment –	comparatively high. Sexual health – un- protected sex \rightarrow STIs,	Use of nursing care for older people – High admission rates, short length of stays.	Mental health problems Stress, anxiety and depression, high Needs Index, substance dependency
Transient / mobile	densely populated, little green space.	unwanted pregnancy	Accommodation for people	Children with special needs
population – 1 in 5 residents moved address. High international migration	Crime and ASB – 7th highest in London.	Accidental fires in dwellings – Still high rates of primary fires and related injuries	with MH – Low throughput in MH services. Non acute delayed transfers of care	Looked After Children People with disabilities
Area – Three town centres, three major football clubs. Carers	Social and community networks	(4 th in London)	from MH services are high.	Prison: setting with high need especially substance misuse and mental health problems
Patient and user experience				

Source: JSNA 2008 Causes of the causes pathway, expanded

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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