

Determinants of Personal Wellbeing across Ethnic Groups in the UK: accounting for demographic, socioeconomic, health and contextual factors

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This document is the Accepted Version [AM]

Citation:

GUMBER, Anil and OWEN, David (2017). Determinants of Personal Wellbeing across Ethnic Groups in the UK: accounting for demographic, socioeconomic, health and contextual factors. In: Personal wellbeing data user event: Showcasing data and research, Brettenham House, London, 29 March 2017. (Unpublished) [Conference or Workshop Item]

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Accounting for demographic, socioeconomic, health and contextual factors



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Personal well-being data user event: Showcasing data and research, ONS and UK Data Service: London.

29th March, 2017

Abstract

Measures of wellbeing and happiness of people across nations and globally have been criticised due to their perceived inadequacy in explaining better quality of life and reduction in inequalities as economic output and income have grown. In the UK, to measure national wellbeing four questions about personal wellbeing (PWB) added to the ONS Annual Population Survey. The four dimensions covered were: happiness, satisfaction with life, worthwhileness of their activity, and anxiety. Respondents were asked to answer these questions using a scale of 0 to 10.

The paper, based on first three years of wellbeing data for 2011-12, 2012-13 and 2013-14, examines the relationships between the four PWB scores and other measures of economic activity and health across people from different ethnic and cultural groups. Using the Secure Data Service versions of these datasets, the paper explores relationships between these wellbeing variables and neighbourhood deprivation, taking into account the geographical concentration of individual ethnic groups. The paper presents a series of multivariate models which adjust for the effects of demographic (age, gender), social (marital status, education completion age), health (chronic condition, disability, limits activity, health status, smoking), SES (highest education, employment type, occupation, job type, public/private, weekly pay, home ownership, benefits), and contextual (deprivation, years of residence, geographical region) characteristics of respondents. The findings will improve our understanding of how people from different socioeconomic and cultural backgrounds perceive and report their well-being and happiness.



Overview

- Background
- ONS efforts on wellbeing measurement
- Wellbeing status
- Why this topic?
- Differentials in wellbeing by ethnic groups
- Differentials in wellbeing by deprivation & geography
- Determinants of wellbeing
- Research issues



Societal Happiness

- The importance of happiness in society is acknowledged at least as far back as the ancient Greek philosophers e.g. Aristotle
- Conception of the good life for humans is one in which they function well; this involves attaining moral and intellectual virtues (Allmark 2005).
- Gross Domestic Product (GDP) has been generally accepted as a measure of national economic prosperity BUT lead to widespread social inequalities
- New concept of SWB emerged over the last four decades as an alternative measure of social welfare to GDP in informing public policy decisions (Layard 2005).



Theoretical approaches to measure PWB

- Measurement of PWB and happiness has its origin in psychology but has spread into the realms of economic decision theory and behavioural economics (Layard 2005; Dolan 2011; OECD 2013).
- According to various experts the happiness derived from positive psychology has been described as equivalent to life satisfaction, quality of people's lives (Helliwell, Layard and Sachs 2012) or experienced utility in microeconomics terms (Dolan 2009); whereas PWB connotes more how we feel (affective happiness) and think about life (evaluative happiness).



Approaches acknowledged by ONS to measure PWB

- <u>Evaluative</u> approach asks individuals to step back and reflect on their life and make a cognitive assessment of how their life is going overall, or on certain aspects of their life.
- <u>Eudemonic</u> approach refers to as the psychological or functioning/flourishing approach, which draws on selfdetermination theory and tends to measure such things as people's sense of meaning and purpose in life, connections with family and friends, a sense of control and whether they feel part of something bigger than themselves.
- <u>Experience</u> approach seeks to measure people's positive and negative experiences over a short timeframe to capture people's wellbeing on a day-to-day basis.

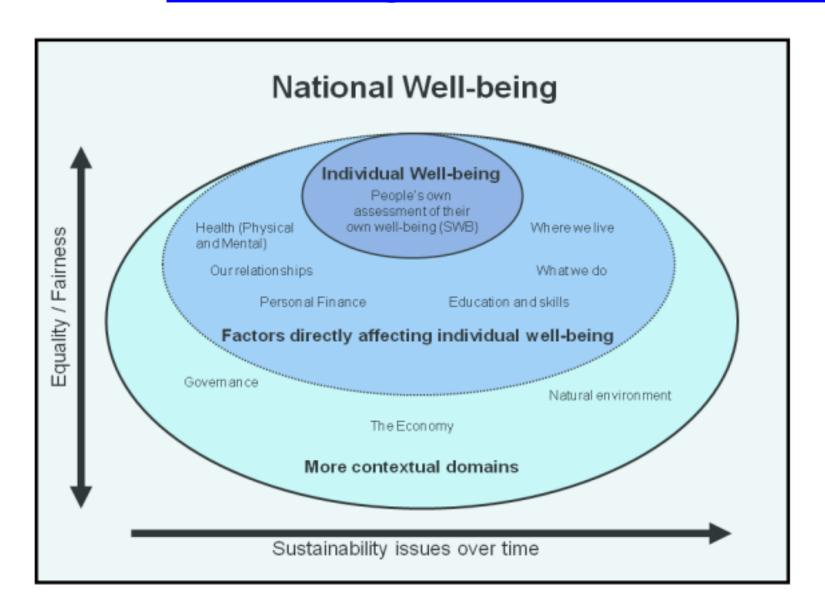


ONS personal wellbeing questions

- Overall, how satisfied are you with your life nowadays? (<u>Evaluative</u>)
- Overall, to what extent do you feel the things you do in your life are worthwhile? (<u>Eudemonic</u>)
- Overall, how happy did you feel yesterday?
 (<u>Experience</u>)
- Overall, how anxious did you feel yesterday? (<u>Experience</u>)



ONS Framework for Measuring National Wellbeing





National Wellbeing Domains

- Individual wellbeing (4)
- Our relationships (3)
- Health (5)
- What we do (5)
- Where we live (4)
- Personal finance (4)
- Education and skills (3)
- The economy (4)
- Governance
 - Involvement in democracy and trust in how the country is run (3)
 - The natural environment (4)
- In All 41 Indicators included
- For details see: http://www.neighbourhood.statistics.gov.uk/HTMLDocs/dvc146/wrapper.html

- UK is becoming increasingly ethnically diverse (BME share increased from 8% in 1991 to 12% in 2001 and 20% in 2011)
- ONS reported PWB levels lower in <u>unemployed</u>, those without a life partner, <u>certain</u> BME groups (ONS 2012).
- Also revealed wide variations in PWB/happiness levels across geographical regions.
- Depressingly <u>all</u> BME groups reported <u>higher levels of</u> <u>anxiety</u> than the White ethnic group.
- ONS states "the differences observed across ethnic groups in SWB may in part be caused by the way that different people with different ethnic backgrounds respond to the SWB questions, but also the varied responses reflect the <u>different circumstances that people find</u> <u>themselves in"</u> (Hicks 2013:p1).



Objectives

- 1. To examine the state of PWB/happiness across ethnic and cultural groups during 2011-12 to 2013-14.
- 2. To identify <u>key variants</u> (socioeconomic status, employment status, housing, deprivation level and other geographical factors, ageing and life-cycle attributes) overall and by ethnic groups
- 3. To determine the <u>adjusted PWB/happiness</u> levels by ethnic groups after controlling for demographic, socioeconomic, contextual and life-cycle factors.



PWB Questions in Annual Population Surveys

APS Coverage: 155,000 households/360,000 people in UK Items of information: their own circumstances and experiences regarding housing, employment, education, health and wellbeing; etc.

PWB

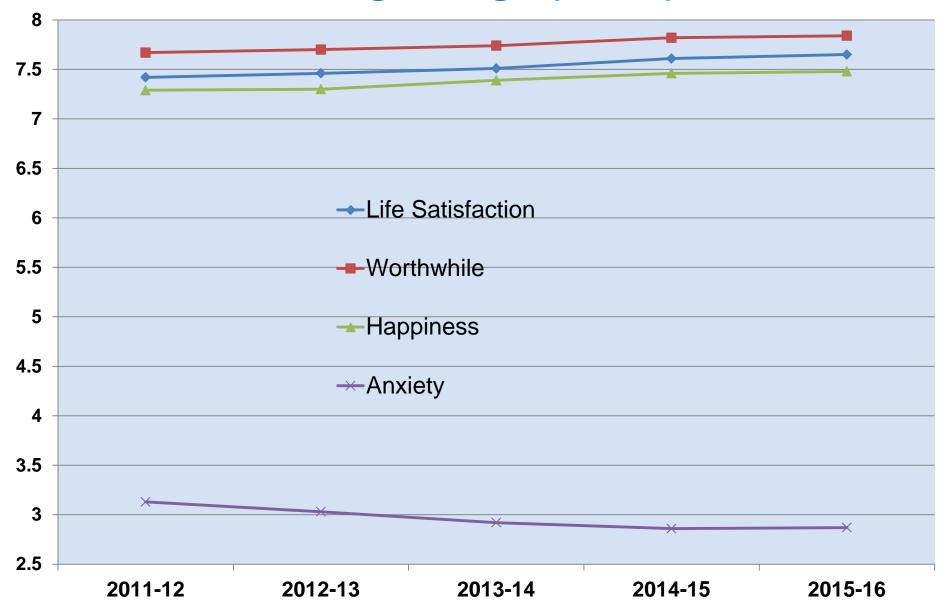
- Overall, how satisfied are you with your life nowadays?
- Overall, to what extent do you feel the things you do in your life are worthwhile?
- Overall, how happy did you feel yesterday?
- Overall, how anxious did you feel yesterday?
 - \square Rating: 0 to 10 scale, where 0 = 'not at all' and 10 = 'completely'
 - No proxy response, uses both face-to-face and telephone interviews
 - ☐ Coverage: People aged 16 and over
 - ☐ Time period: Apr 2011-Mar 2012, Apr 2012-Mar 2013, Apr 2013-Mar 2014
 - □ Respondents: 128,000 (2011-12); 90,000 (2012-13); 89,000 (2013-14)



Personal wellbeing: percentage of adults reporting very low, low, medium and high ratings, 2011–12

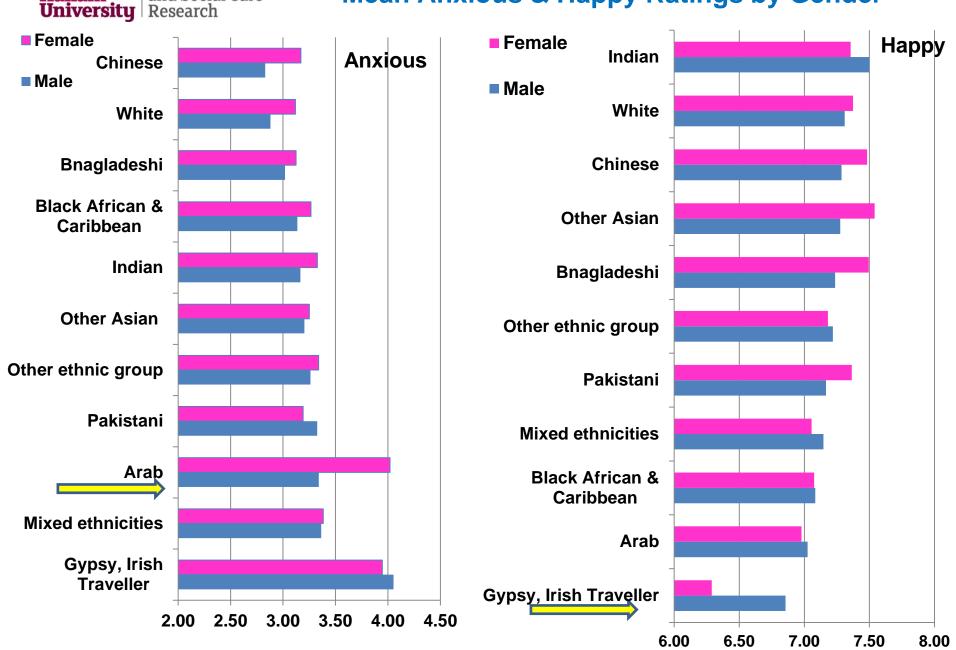
| | Very low | Low | Medium | High | Average |
|-------------------|-----------|-------|--------|--------|---------|
| | (0-4) | (5–6) | (7–8) | (9–10) | (mean) |
| Life satisfaction | 6.6 | 17.5 | 49.8 | 26.1 | 7.4 |
| Worthwhile | 4.9 | 15.1 | 48.6 | 31.4 | 7.7 |
| Happy yesterday | 10.9 | 18.0 | 39.3 | 31.8 | 7.3 |
| | Very high | High | Medium | Low | Average |
| | (6–10) | (4–5) | (2-3) | (0–1) | (mean) |
| Anxious yesterday | 21.8 | 18.1 | 23.5 | 36.6 | 3.1 |

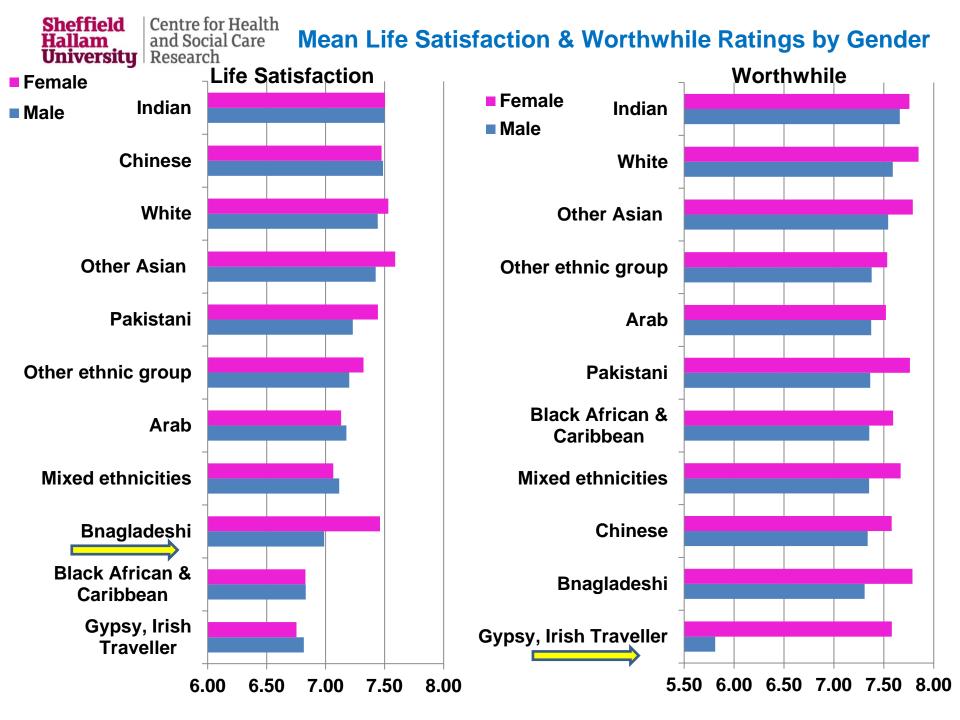
Personal wellbeing ratings (mean), 2011 to 2016





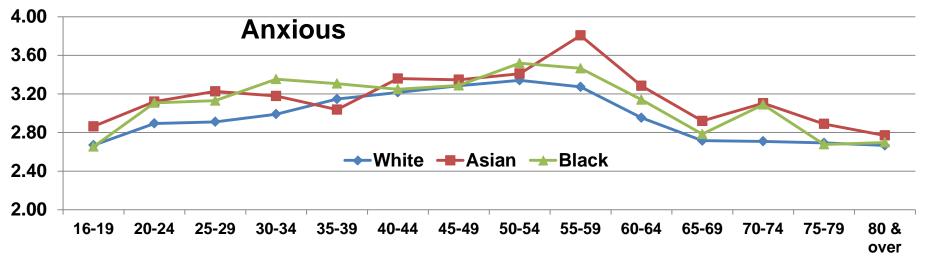
Mean Anxious & Happy Ratings by Gender

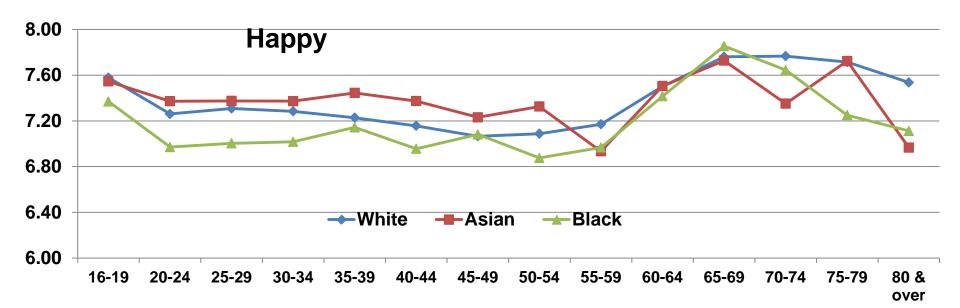




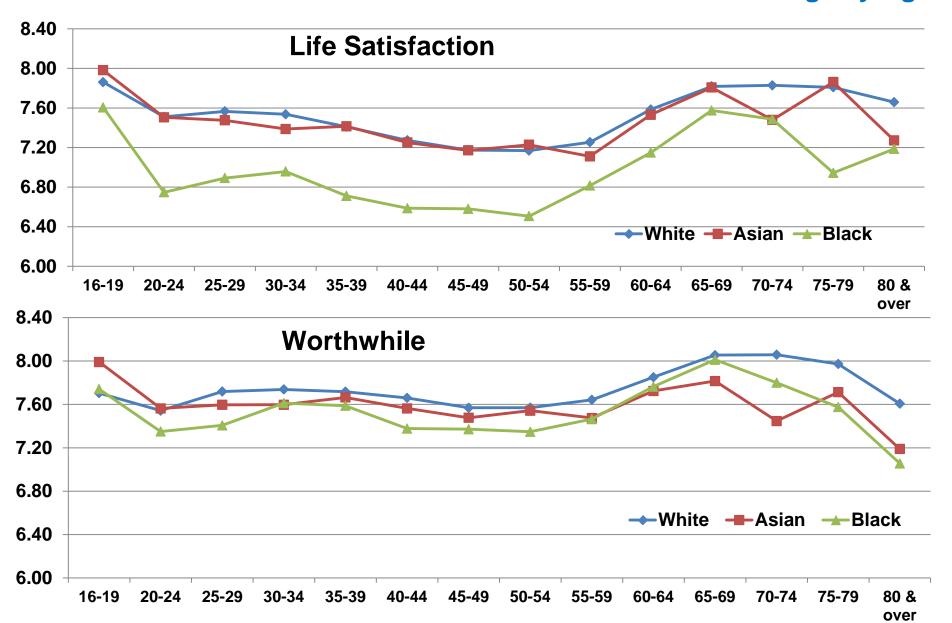


Mean Anxious & Happy Ratings by Age





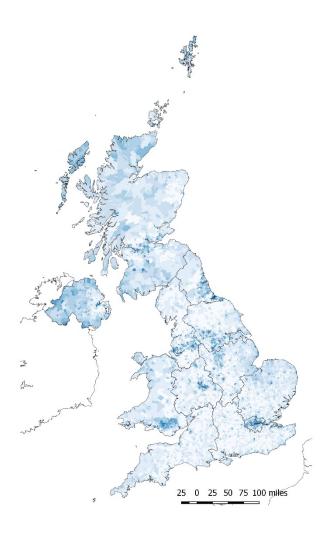
Mean Life Satisfaction and Worthwhile Ratings by Age





Measuring deprivation:The Carstairs index

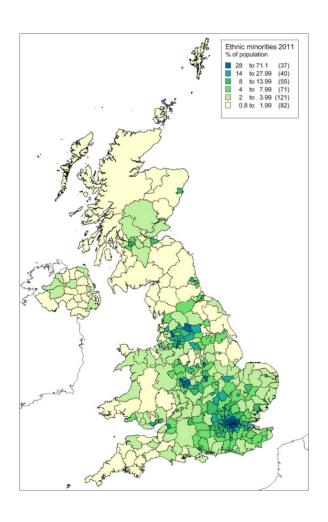
- The aim of this paper was to investigate the relationship between happiness, deprivation and ethnicity across the whole UK. However, there is no official current indicator of deprivation which covers the whole of the UK – all are country-specific.
- Therefore, the Carstairs index, a simple and commonly-used deprivation indicator which can be calculated using Census data for all four countries was used instead.
- This combines four Census measures: The male unemployment rate, the percentage of households overcrowded, the percentage of households with no car and the percentage of workers in semi-routine and routine occupations.
- The four percentages are converted to standard scores and then summed to form the index. The index was calculated for the smallest neighbourhoods available in the APS data: Lower Super Output Areas (for England, Wales and Northern Ireland) and 2011 Data Zones in Scotland.
- Since all four components are negative phenomena, the value of the Carstairs index is lowest (negative) in prosperous areas and the highest positive scores occur in the most deprived areas.

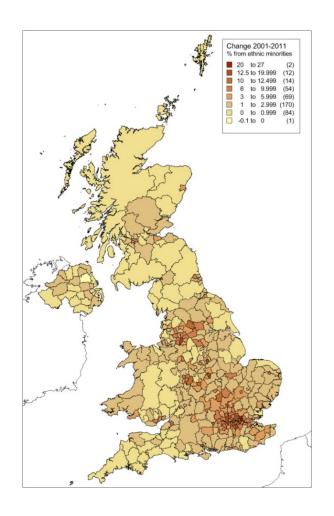


Deprivation within Great Britain, 2011

- 2011 Carstairs Index calculated for all 34,753
 Lower Super Output Areas in England and
 Wales, 6,976 Data Zones in Scotland and 890
 LSOAs in Northern Ireland.
- Unfortunately, Northern Ireland QoL APS data does not have a LSOA identifier, hence analysis is restricted to Great Britain.
- Greatest deprivation (darkest areas) is found in inner areas of large cities (notably London).
- However, smaller towns also contain pockets of deprivation.
- Suburbs and commuter fringes are relatively prosperous.
- But deprivation also occurs in remoter (e.g. N. Scotland) and coastal rural areas (especially declining resorts).
- Former coalfields, e.g. South Wales, South Yorkshire and central Scotland also experience higher deprivation.

Geography of ethnic minorities







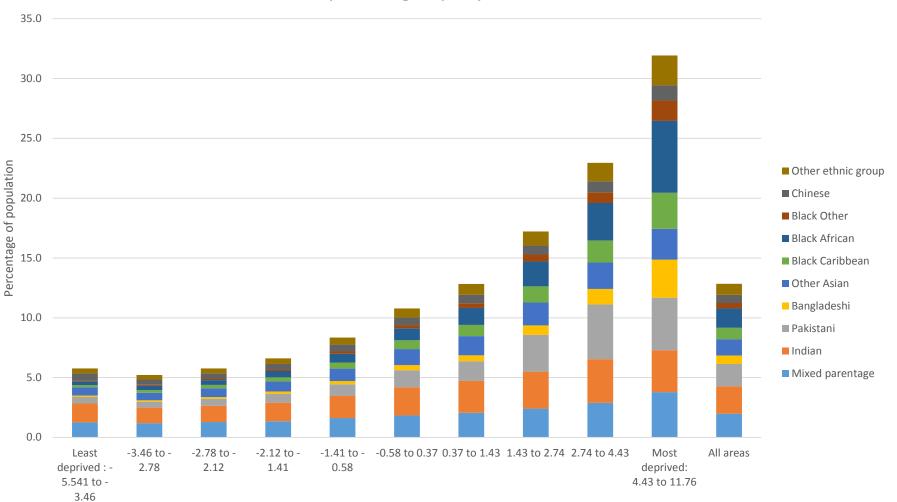
Minority population distribution

- The ethnic minority population in 2011 was still geographically concentrated into London and the larger cities of the English midlands and Pennine belt.
- There are significant populations in the commuter hinterlands of these cities and more accessible rural areas, but the ethnic minority share of the population is smallest in Northern Ireland, Wales, Scotland, eastern England, and the more rural periphery of England.
- The UK ethnic minority population increased by 75% between 2001 and 2011. Black and Asian ethnic groups grew slightly more slowly and the number of mixed parentage more quickly.
- The ethnic minority population grew in all parts of the UK between 2001 and 2011. It is spreading outwards from the traditional areas of concentration, mostly in the larger cities.
- Even so, the larger cities still experienced both the fastest minority population growth and the greatest minority population gain between 2001 and 2011.



Ethnicity and deprivation

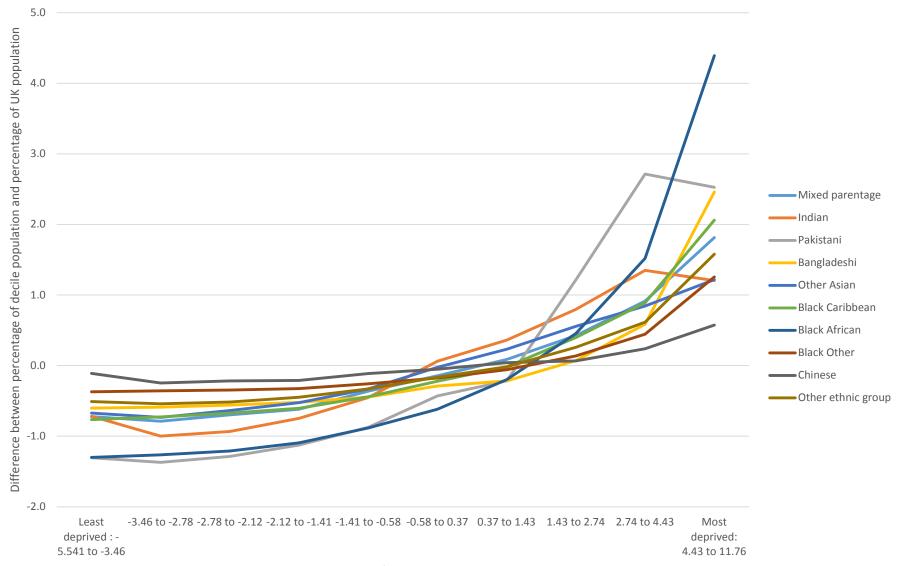
Distribution of minority ethnic groups by decile of Carstairs score, 2011



Decile of Carstairs score



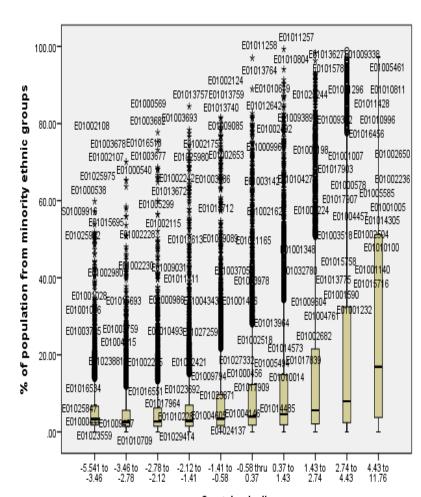
Over-representation by Carstairs decile





Ethnicity and disadvantage

- The preceding charts present a clear pattern of geographical concentration of people from ethnic minorities in areas of relative deprivation, though there are variations between individual ethnic groups.
- Minority ethnic groups represented 12.8% of the UK's population in 2011. However, they formed more than a quarter of the population in each of the two most deprived deciles (31.9% in the most deprived decile and 23% in the next most deprived), but only 5.8% of the population of the least deprived decile (and 5.2% of the population of the next most prosperous decile). The white population is more evenly distributed across the deciles, but with 10.5% in the most prosperous and 8.1% in the most deprived deciles, indicating a lesser tendency to live in deprived areas.
- Overall, 43.6% of all people from minority ethnic groups and 64.1% of Bangladeshi, 57.8% of Black-African, 52.1% of Black-Caribbean and 49.0% of Pakistani people lived in the most deprived quintile of LSOAs. 45.8% of Bangladeshi people and 38.4% of Black-African people lived in the most deprived decile.
- Indian and Chinese people were the least likely minority ethnic groups to live in the most deprived 20% of LSOAs.
- 14.5% of Chinese, 12.3% of Indian and 12.1% of people of mixed parentage lived in the least deprived 20% of LSOAs.
- The boxplot indicates that high minority shares of the population occurred in neighbourhoods across the range of deprivation experiences. The median percentage of the population from minority ethnic groups increased with deprivation, but the variation in this percentage also increased with deprivation.
- Neighbourhoods in which the population is almost exclusively from minority ethnic groups are much more likely to experience high levels of deprivation.



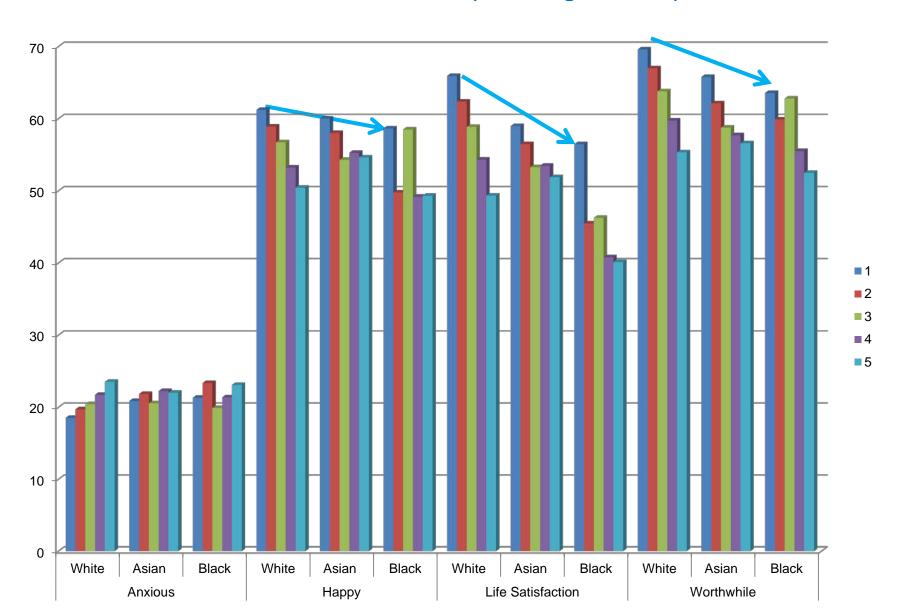
Carstairs decile



Geographical variations in Wellbeing

- Scores on each indicator are most favourable in the most prosperous Deprivation quintiles and least favourable in the most deprived quintiles.
- This pattern is similar for White, Black and Asian ethnic groups.
- Wellbeing scores are least favourable in London and the West Midlands, in which the percentage of the population from ethnic minorities is largest.
- This suggests that ethnic minorities tend to live in areas of higher deprivation and lower wellbeing.

and Social Care % Reported high(8-10) ratings of life satisfaction, worthwhile & happy, Very high(6-10) ratings of anxious by deprivation quintiles, (excluding N Ireland)



Multivariate Analyses

<u>Dependent</u>: High Life satisfaction, Worthwhile and Happy yesterday ratings and Very High Anxious yesterday rating

Logistic Regression Models

```
Model 1 (1 variable): Ethnic groups
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Model 2 (3 variables): + Demographic (age, gender)

Model 3 (5 variables): + Social (marital status, education completion age, religion)

Model 4 (10 variables): + + Health Status (chronic condition, disability, limits activity, health status, smoking)

Model 5 (18 variables): + + + SES (highest education, employment type, occupation, job type, public/private, weekly pay, home ownership, benefits)

Model 6 (21 variables): + + + + Contextual (deprivation, years of residence, year of in-migration, geographical region)

| Stepwise selection | Anxious | Нарру | Life Satisfaction | Worthwhile |
|--------------------|------------------------------|----------------------|----------------------|----------------------|
| 1 | Health status | Health status | Health status | Health status |
| 2 | Age group | Age group | Age group | Marital status |
| 3 | Gender | Marital status | Marital status | Age group |
| 4 | Limits activity | Employment type | Employment type | Gender |
| 5 | Edu compl age | Gender | House ownership | Employment type |
| 6 | Smoking | House ownership | Ethnicity | Public/private |
| 7 | Employment type | Smoking | Smoking | Occupation |
| 8 | Region | Region | Weekly pay | Region |
| 9 | Marital status | Highest edu | Gender | Smoking |
| 10 | Disable | Deprivation quintile | Region | House ownership |
| 11 | Weekly pay | Year of residence | Edu compl age | Edu compl age |
| 12 | Ethnicity | Occupation | Disable | Highest edu |
| 13 | Job type | Ethnicity | Occupation | Ethnicity |
| 14 | House ownership | Limits activity | Deprivation quintile | Weekly pay |
| 15 | Chronic condition | Job type | Job type | Benefits |
| 16 | Occupation | Weekly pay | Highest edu | Deprivation quintile |
| 17 | Year of residence | Edu compl age | Benefits | Limits activity |
| 18 | Public/private | Public/private | Limits activity | Job type |
| 19 | Highest Edu | Benefits | Year of residence | Year of residence |
| 20 | Benefits | Chronic condition | Public/private | Chronic condition |
| 21 Rejected Var | Deprivation quintile riables | Disable | Chronic condition | Disable |

| | Determinants | Base(Total)category | Anxious |
|----------------|-----------------------|---------------------|--|
| 1. Culture | Ethnicity | White (11) | Lowest in Gypsy, then Arab; 5BME |
| | | | Non-linear rises with peak at ages 45-59 and then decline and become insignificant |
| 2. Demographic | Age group | Adolescent (14) | from age 70 onwards |
| | Gender | Female (2) | Lower in male |
| 3. Social | Marital status | Single (6) | Lower in married, higher in separated |
| | Edu. completion age | up to 15 (6) | lowest in 17-19 age |
| 4. Health | Health status | Very Good (5) | Rises as health deteriorates |
| | Chronic condition | None (2) | Higher |
| | Disability | None (2) | Higher |
| | Limits activity | None (2) | Higher |
| | Smoking | Never (3) | Highest in Smoker |
| 5. Economic | Employment type | Inactive (5) | Highest in Unemployed |
| | Occupation | Inactive (8) | Lower in middle level occupations |
| | Job type | Temporary (2) | Lower in Permanent |
| | Public/private sector | Private (2) | NS |
| | Weekly pay | £750 + (6) | Lowest in non-working; NS |
| | Benefits | None (2) | NS |
| | Home ownership | Owned outright (5) | Lowest for owning house outright |
| | Highest education | No education (7) | NS |
| 6. Contextual | Geographical region | N. Ireland (13) | Lower in North-West, East Midlands |
| | Years of residence | < 12 months (6) | Higher in <1 year residency |

| | | Anxious (Forward Stepwise Entry by Importance) | | | |
|------------------|-----------------------|---|----------|----------|------------|
| | Determinants | All | White | Asian | Black |
| 1. Culture | Ethnicity | 12 | NA | 7 | N.A |
| 2. Demographics | Age group | 2 | 2 | 6 | 2 |
| | Gender | 3 | 3 | 9 | Rejected |
| 3. Social | Marital status | 9 | 10 | 13 | Rejected |
| | Edu. compl age | 5 | 5 | 8 | Rejected |
| 4. Health | Health status | 1 | 1 | 1 | 1 |
| | Chronic condition | 15 | 15 | Rejected | Rejected |
| | Disability | 10 | 9 | Rejected | Rejected |
| | Limits activity | 4 | 4 | 10 | Rejected |
| | Smoking | 6 | 6 | 4 | Rejected |
| 5. Economic | Employment type | 7 | 7 | 5 | Rejected |
| | Occupation | 16 | 13 | Rejected | Rejected |
| | Job type | 13 | 14 | Rejected | <u> </u> |
| | Public/private sector | 18 | 16 | 11 | Rejected |
| | Weekly pay | 11 | 11 | Rejected | 5 |
| | Benefits | Rejected | 17 | Rejected | Rejected |
| | Home ownership | 14 | 12 | 12 | ϵ |
| | Highest education | Rejected | 18 | 3 | Rejected |
| 6. Contextual | Region | 8 | 8 | 2 | Rejected |
| | Year of residence | 17 | 19 | 14 | 3 |
| | Deprivation (IMD) | Rejected | Rejected | Rejected | Rejected |
| Number of Accept | ted Variables | 18 | 19 | 14 | e |

| | Determinants | Base(Total)category | Нарру |
|---------------|-----------------------|---------------------|---|
| 1. Culture | Ethnicity | White (11) | Lowest in Gypsy, then Arab, 4BME |
| 2. | | | Non-linear Lower in younger & middle |
| Demographic | Age group | Adolescent (14) | ages & then rises from age 60 onwards |
| | Gender | Female (2) | Lower in male |
| 3. Social | Marital status | Single (6) | Higher in Married, Lower in widowed |
| | Edu. completion age | up to 15 (6) | Highest in 17-19 age |
| 4. Health | Health status | Very Good (5) | Decreases as health deteriorates |
| | Chronic condition | None (2) | NS |
| | Disability | None (2) | NS |
| | Limits activity | None (2) | NS |
| | Smoking | Never (3) | Lowest in Smoker |
| 5. Economic | Employment type | Inactive (5) | Lowest in Unemployed, FT Employee |
| | Occupation | Inactive (8) | Highest in Lower Supervisory & technical |
| | Job type | Temporary (2) | Higher in Permanent |
| | Public/private sector | Private (2) | NS |
| | Weekly pay | £750 + (6) | Higher in middle income; -ve |
| | Benefits | None (2) | NS |
| | Home ownership | Owned outright (5) | Lower for having mortgage, rented |
| | | . , | Lowest in highest Qualification, Higher in |
| | Highest education | No education (7) | Other qualification |
| 6. Contextual | Geographical region | N. Ireland (13) | Lowest in Merseyside, West Midlands |
| | Year of residence | < 12 months (6) | Highest in <1 and 2-3 year residency; -ve |
| | Deprivation (IMD) | Highest (5) | Lowest in Q5 then Q4; -ve |

| | | Happy (Forward Stepwise Entry by Importance | | | Importance) |
|------------------|-----------------------|---|----------|----------|-------------|
| | Determinants | All | White | Asian | Black |
| 1. Culture | Ethnicity | 13 | NA | 9 | NA |
| 2. Demographics | Age group | 2 | 2 | 3 | 2 |
| | Gender | 5 | 5 | 4 | 5 |
| 3. Social | Marital status | 3 | 3 | 2 | 3 |
| | Edu. compl age | 17 | 15 | Rejected | Rejected |
| 4. Health | Health status | 1 | 1 | 1 | 1 |
| | Chronic condition | Rejected | Rejected | Rejected | Rejected |
| | Disability | Rejected | 17 | 10 | Rejected |
| | Limits activity | 14 | 11 | Rejected | Rejected |
| | Smoking | 7 | 7 | 7 | Rejected |
| 5. Economic | Employment type | 4 | 4 | 6 | 8 |
| | Occupation | 12 | 13 | 11 | 6 |
| | Job type | 15 | 16 | 8 | Rejected |
| | Public/private sector | Rejected | Rejected | Rejected | Rejected |
| | Weekly pay | 16 | 14 | Rejected | Rejected |
| | Benefits | Rejected | Rejected | Rejected | Rejected |
| | Home ownership | 6 | 6 | 9 | 4 |
| | Highest education | 9 | 9 | Rejected | 9 |
| 6. Contextual | Region | 7 | 8 | 5 | Rejected |
| | Year of residence | 11 | 12 | Rejected | 7 |
| | Deprivation (IMD) | 10 | 10 | Rejected | 4 |
| Number of Accept | ted Variables | 17 | 17 | 11 | 9 |

| | Determinants | Base(Total)category | Life Satisfaction |
|----------------|-----------------------|---------------------|---|
| 1. Culture | Ethnicity | White (11) | Lowest in Black, then Arab; 9BME |
| | | | Non-linear declines with dip in middle |
| 2. Demographic | Age group | Adolescent (14) | ages and rises from age 65 onwards |
| | Gender | Female (2) | Lower in male |
| 3. Social | Marital status | Single (6) | Higher in Married, Lower in Separated |
| | Edu. completion age | up to 15 (6) | Declines with edu-age |
| 4. Health | Health status | Very Good (5) | Decreases sharply as health deteriorates |
| | Chronic condition | None (2) | NS |
| | Disability | None (2) | Lower |
| | Limits activity | None (2) | Lower |
| | Smoking | Never (3) | Lowest in Smoker |
| 5. Economic | Employment type | Inactive (5) | Lowest in Unemployed, Higher in SE |
| | Occupation | Inactive (8) | Higher in top, Lower in lower occupations |
| | Job type | Temporary (2) | Higher in Permanent |
| | Public/private sector | Private (2) | NS |
| | Weekly pay | £750 + (6) | low in lower income; +ve |
| | Benefits | None (2) | Lower |
| | Home ownership | Owned outright (5) | Lowest for rented, then having mortgage |
| | Highest education | No education (7) | Lower in higher qualification |
| 6. Contextual | Geographical region | N. Ireland (13) | Lowest in London, then West Midlands |
| | Year of residence | < 12 months (6) | Highest in <1, then in 1-2 year residency |
| | Deprivation (IMD) | Highest (5) | Highest in Q5; +ve |

| | | Life Satisfaction (Forward Stepwise Entry) | | | |
|------------------|-----------------------|--|----------|----------|----------|
| | Determinants | All | White | Asian | Black |
| 1. Culture | Ethnicity | 6 | NA | 11 | NA |
| 2. Demographics | Age group | 2 | 3 | 2 | 2 |
| | Gender | 9 | 8 | 5 | 10 |
| 3. Social | Marital status | 3 | 2 | 3 | 3 |
| | Edu. compl age | 11 | 11 | 6 | 8 |
| 4. Health | Health status | 1 | 1 | 1 | 1 |
| | Chronic condition | Rejected | Rejected | Rejected | Rejected |
| | Disability | 12 | 10 | 10 | Rejected |
| | Limits activity | 18 | 17 | Rejected | Rejected |
| | Smoking | 7 | 5 | 8 | 12 |
| 5. Economic | Employment type | 4 | 4 | 4 | 4 |
| | Occupation | 13 | 12 | Rejected | 6 |
| | Job type | 15 | 16 | Rejected | 7 |
| | Public/private sector | Rejected | 19 | Rejected | Rejected |
| | Weekly pay | 8 | 7 | 9 | 11 |
| | Benefits | 17 | 14 | Rejected | Rejected |
| | Home ownership | 5 | 6 | Rejected | 9 |
| | Highest education | 16 | 15 | 13 | Rejected |
| 6. Contextual | Region | 10 | 9 | 7 | Rejected |
| | Year of residence | 19 | 18 | 12 | 5 |
| | Deprivation (IMD) | 14 | 13 | Rejected | 13 |
| Number of Accept | ted Variables | 19 | 19 | 13 | 13 |

| | Determinants | Base(Total)category | Worthwhile |
|----------------|-----------------------|---------------------|---|
| 1. Culture | Ethnicity | White (18) | Lowest in Chinese, then Arab; 4BME |
| | | | Non-linear declines with dip in middle |
| 2. Demographic | Age group | Adolescent (14) | ages and rises from age 60 onwards |
| | Gender | Female (2) | Lower in male |
| 3. Social | Marital status | Single (6) | Higher in Married, Lower in Divorced |
| | Edu. completion age | up to 15 (6) | Declines with edu-age |
| 4. Health | Health status | Very Good (5) | Decreases sharply as health deteriorates |
| | Chronic condition | None (2) | Higher |
| | Disability | None (2) | Lower |
| | Limits activity | None (2) | Lower |
| | Smoking | Never (3) | Lowest in Smoker |
| 5. Economic | Employment type | Inactive (5) | Lowest in Unemployed, Highest in SE |
| | Occupation | Inactive (8) | Higher in top, Lower in lower occupations |
| | Job type | Temporary (2) | Higher in Permanent |
| | Public/private sector | Private (2) | Lower in private |
| | Weekly pay | £750 + (6) | low in lower income; +ve |
| | Benefits | None (2) | Higher |
| | Home ownership | Owned outright (5) | Lowest for rented |
| | Highest education | No education (7) | Higher and rises with qualification >GCSE |
| | Geographical region | N. Ireland (13) | Lowest in London, then West Midlands |
| | . . | < 12 months (6) | Higher in 1-2 and 2-3 years residency |
| | | Highest (5) | Higher in O4 and O5: +ve |

| | | Worthwhile (Forward Stepwise Entry) | | | | |
|------------------------------|-----------------------|--------------------------------------|-------|----------|------------|--|
| | Determinants | All | White | Asian | Black | |
| 1. Culture | Ethnicity | 13 | NA | 8 | N <i>A</i> | |
| 2. Demographics | Age group | 3 | 3 | 3 | 4 | |
| | Gender | 4 | 4 | 4 | 3 | |
| 3. Social | Marital status | 2 | 2 | 2 | 2 | |
| | Edu. compl age | 11 | 12 | 10 | 12 | |
| 4. Health | Health status | 1 | 1 | 1 | 1 | |
| | Chronic condition | 20 | 19 | Rejected | Rejected | |
| | Disability | 21 | 18 | 13 | Rejected | |
| | Limits activity | 17 | 16 | Rejected | Rejected | |
| | Smoking | 9 | 7 | 14 | Rejected | |
| 5. Economic | Employment type | 5 | 5 | 5 | g | |
| | Occupation | 7 | 8 | 7 | 8 | |
| | Job type | 18 | 17 | Rejected | 11 | |
| | Public/private sector | 6 | 6 | 11 | 10 | |
| | Weekly pay | 14 | 14 | 15 | ϵ | |
| | Benefits | 15 | 11 | Rejected | Rejected | |
| | Home ownership | 10 | 10 | Rejected | 7 | |
| | Highest education | 12 | 13 | 12 | 5 | |
| 6. Contextual | Region | 8 | 9 | 6 | Rejected | |
| | Year of residence | 19 | 20 | 9 | Rejected | |
| | Deprivation (IMD) | 16 | 15 | Rejected | Rejected | |
| Number of Accepted Variables | | 21 | 19 | 15 | 12 | |

Centre for Health Adjusted Very High Anxious Rating Odds Ratio Hallam **University** Research

1. Gypsy/Irish traveller

8. Black African & Caribbean

No. of groups significantly

different from White

2. Mixed ethnicities

Sheffield

White

3. Indian

4. Pakistani

6. Chinese

9. Arab

10. Others

5. Bangladeshi

7. Other Asian

Anxious

Unadi

usted

2.90*

1.25*

1.10*

1.13*

0.99

0.87*

1.08

1.10*

1.30*

1.13*

8

(1)

Demog

raphic

2.81*

1.26*

1.11*

1.17*

1.06

0.90*

1.09

1.08*

1.38*

1.15*

8

(3)

Social

2.48*

1.25*

1.17*

1.21*

1.07

0.87*

1.12*

1.04

1.36*

1.14*

8

(5)

for Ethnic Minority Groups

Health

(10)

1.94*

1.20*

1.15*

1.10*

0.99

0.91

1.09

1.06*

1.25*

1.10*

Econo

mic

(18)

1.88*

1.18*

1.15*

1.09*

0.97

0.91

1.08

1.03

1.21*

1.09

5

Conte

xtual

(21)

1.88*

1.16*

1.13*

1.10*

0.94

0.90

1.05

1.00

1.19*

1.06

5

Inferences

1st Highest

3rd Highest

4th Highest

5th Highest

Disappear

Disappear

Disappear

2nd Highest

NS

NS

Hallam and Social Care **University** Research

1. Gypsy/Irish traveller

8. Black African & Caribbean

No. of groups significantly

different from White

2. Mixed ethnicities

Sheffield

White

3. Indian

Pakistani

6. Chinese

9. Arab

10. Others

5. Bangladeshi

7. Other Asian

Happy

Centre for Health

Unadi usted (1)

Adjusted High Happy Rating Odds Ratio

for Ethnic Minority Groups

Health

(10)

0.57*

0.93

1.01

0.97

1.06

0.97

1.04

0.88*

0.74*

0.94*

4

Econo

mic

(18)

0.57*

0.94

1.01

0.95

1.09

0.96

1.05

0.91*

0.75*

0.95

3

1

Conte

xtual

(21)

0.57*

0.96

1.05

0.99

1.15*

0.98

1.08*

0.96

0.77*

0.98

4

Inferences

1st Lowest

Disappear

Disappear

Contrast

Contrast

Disappear

Disappear

2nd Lowest

NS

NS

Demogr Social

(5)

0.45*

0.89*

0.96

0.86*

0.96

0.98

1.00

0.89*

0.69*

0.90*

6

aphic

0.41*

0.87*

1.08*

0.96

1.06

1.01

1.10*

0.85*

0.72*

0.93*

7

(3)

1

0.40*

0.80*

1.00

0.88*

0.96

0.93

1.01

0.79*

0.65*

0.86*

6

Hallam **University** Research

1. Gypsy/Irish traveller

2. Mixed ethnicities

Life Satisfaction

Sheffield

White

3. Indian

Pakistani

6. Chinese

9. Arab

10. Others

5. Bangladeshi

7. Other Asian

and Social Care

8. Black African & Caribbean 0.51*

No. of groups significantly

different from White

Centre for Health

Adjusted High Life Satisfaction Rating Odds Ratio

for Ethnic Minority Groups

Health

(10)

0.78

0.72*

0.76*

0.70*

0.62*

0.76*

0.78*

0.52*

0.63*

0.72*

9

Econo

mic

(18)

0.79

0.75*

0.78*

0.74*

0.69*

0.77*

0.85*

0.60*

0.69*

0.79*

9

1

Conte

xtual

(21)

0.79

0.78*

0.84*

0.79*

0.78*

0.80*

0.91*

0.66*

0.74*

0.85*

9

Inferences

Disappear

3rd Lowest

7th Lowest

6th Lowest

4th Lowest

5th Lowest

9th Lowest

1st Lowest

2nd Lowest

8th Lowest

Demogr Social

(5)

0.55*

0.70*

0.74*

0.63*

0.57*

0.80*

0.76*

0.55*

0.58*

0.70*

10

aphic

0.48*

0.68*

0.93*

0.77*

0.68*

0.94

0.93*

0.54*

0.67*

0.78*

10

(3)

1

Unadi

usted

0.47*

0.64*

0.87*

0.72*

0.65*

0.90*

0.87*

0.62*

0.74*

10

(1)

Centre for Health **Hallam** and Socia **University** Research and Social Care

Worthwhile

8. Black African & Caribbean

No. of groups significantly

different from White

1. Gypsy/Irish traveller

2. Mixed ethnicities

Sheffield

White

3. Indian

4. Pakistani

6. Chinese

9. Arab

10. Others

5. Bangladeshi

7. Other Asian

Adjusted High Worthwhile Rating Odds Ratio Demogr Social Unadj

usted

(1)

0.73

0.74*

0.90*

0.75*

0.74*

0.67*

0.86*

0.70*

0.70*

0.67*

9

aphic

(3)

0.74

0.81*

0.98

0.82*

0.83*

0.76*

0.94

0.74*

0.80*

0.72*

(5)

1

0.83

0.84*

0.82*

0.70*

0.72*

0.69*

0.80*

0.77*

0.72*

0.66*

9

for Ethnic Minority Groups

Health

(10)

1.15

0.87*

0.84*

0.77*

0.78*

0.66*

0.82*

0.74*

0.78*

0.68*

9

1

Conte

xtual

(21)

1.19

0.93

0.95

0.86*

0.96

0.71*

0.96

0.90*

0.92

0.80*

4

NS

Inferences

Disappear

Disappear

3rd Lowest

Disappear

1st Lowest

Disappear

4th Lowest

Disappear

2nd Lowest

Econo

mic

(18)

1.19

0.89*

0.88*

0.81*

0.86*

0.68*

0.89*

0.81*

0.84*

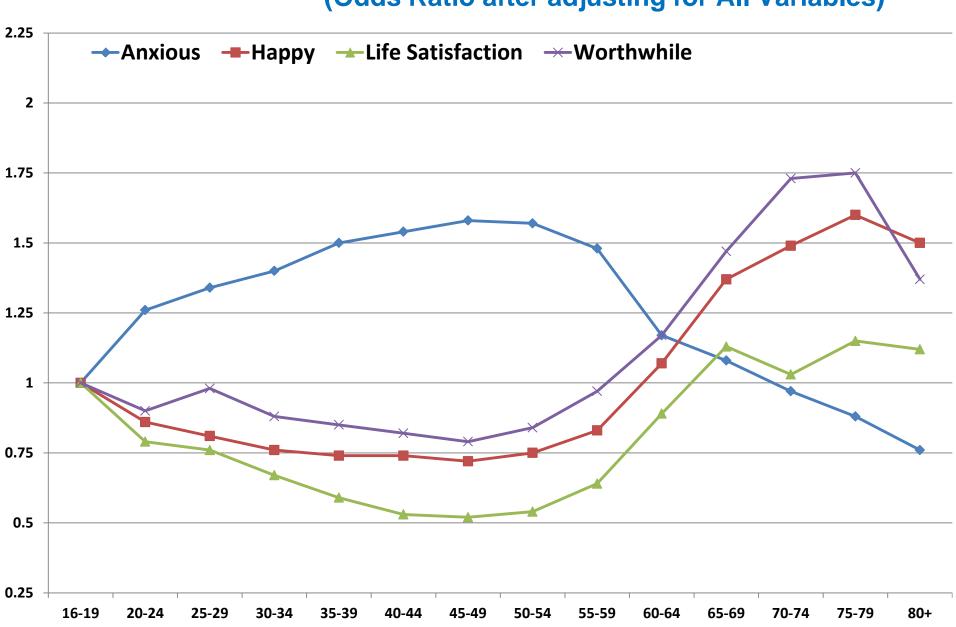
0.73*

9

1

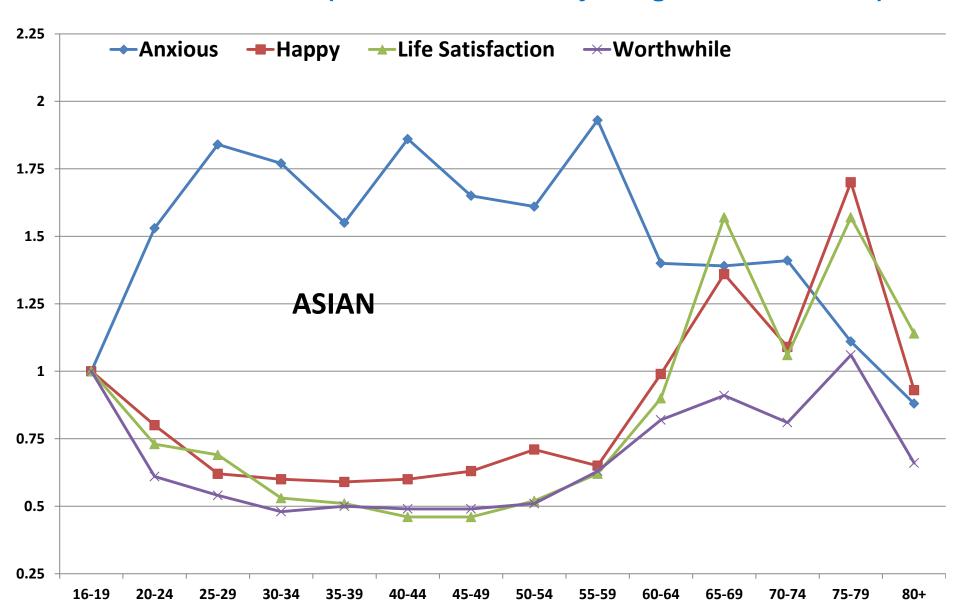
Life-cycle effects on wellbeing

(Odds Ratio after adjusting for All Variables)





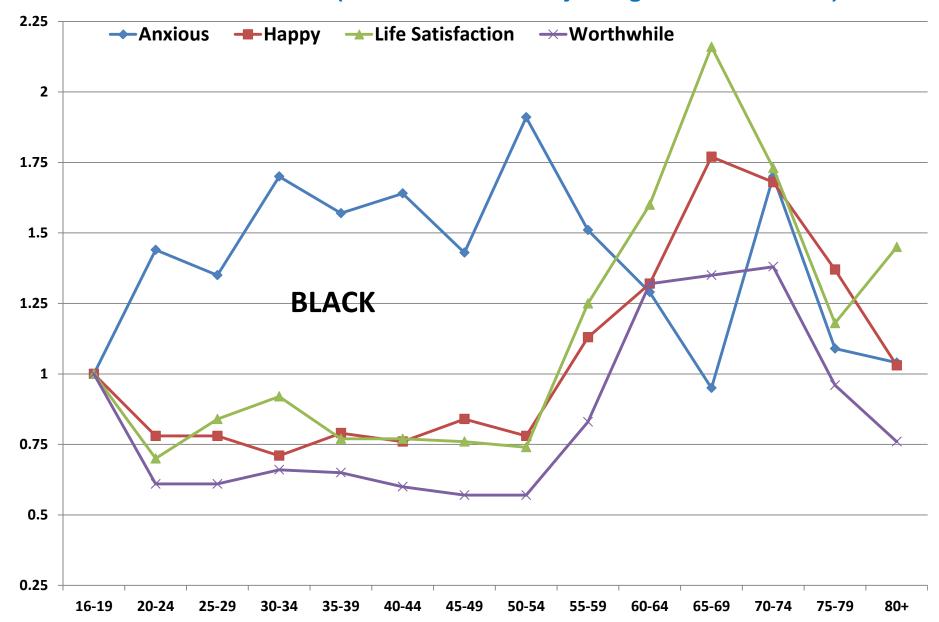
Life-cycle effects on wellbeing of Asian (Odds Ratio after adjusting for All Variables)



Sheffield Hallam University | Centre for Health and Social Care Research

Life-cycle effects on wellbeing of Black

(Odds Ratio after adjusting for All Variables)





Conclusion (1)

- Most BME have reported lower wellbeing than White people.
- After adjustment for demographic, social, health, economic and contextual factors, wellbeing among BME continued to remain lower than White majority.
- Health is the key determinant of wellbeing for all ethnic groups.
 Smokers have most negative experience. Wellbeing in People with chronic conditions didn't differ much.
- Stage in life cycle is important older people feel life has been worthwhile
- Economic conditions influence wellbeing. Less economically successful groups (mainly BME) have lower scores on wellbeing.
- Income turned out to be a weak predictor of Happiness and Wellbeing
- After health status and demographics, <u>Ethnicity</u> is key determinant of Life Satisfaction and Worthwhile whereas <u>Deprivation</u> is the least



Conclusion (2)

- Fewer determinants of wellbeing in Black and Asian ethnicity compared to White (their rankings also differs)
- Residents of London (followed by West Midlands) have lower worthwhile and lower life satisfaction scores than other regions/countries (after controlling for other variables in regressions).
- Northern Ireland residents display the highest scores on wellbeing.
- Black-African people have low satisfaction. Perhaps because many arrived as asylum-seekers and other have not had work consistent with qualifications?
- Chinese people have low scores on worthwhile, even though their scores on other measures are more positive.



Limitations

- SOA codes for Northern Ireland were not provided ... not linked with deprivation level (covering <2% of cases)
- ONS wellbeing variables do not measure at household or family level which is more appropriate for BME groups.
- ONS Survey is conducted in English Language thus restrict participation of people Who don't know English language.
- Ethnic group classification does not distinguish the 3
 Black groups at the UK level so does other White
 minorities (As a result we have not seen wide disparities
 between 11 vs. 18 ethnic groups for England).



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