

Indices of Multiple Deprivation

Description: Indices of Multiple Deprivation were derived as a part of the morphometric analysis of the built environment that was conducted by the Cochrane Institute of Primary Care and Public Health, Cardiff University.

The Welsh index of multiple deprivation (WIMD) and English Welsh index of multiple deprivation (IMD) scores, measured at the level of lower super output areas (LSOA) census areas have been employed as indicators of neighbourhood deprivation. The composite score originates from the following domain indices: income, employment, health, education, access to services, community safety and physical environment. Each UK Biobank participant's address (at recruitment) was associated with the WIMD or IMD scores of the LSOA in which it's spatially located.

- For Wales, WIMD 2008 and 2011 have been employed.
- For England, IMD 2007 and 2010 have been employed.

For more information and detailed description of the methodology and variables please refer to the 'MORPHOMETRIC ANALYSIS OF THE BUILT ENVIRONMENT IN UK BIOBANK: DATA ANALYSES AND SPECIFICATION MANUAL' in the 'Additional Resources' tab.

- **Welsh Index of Multiple Deprivation (WIMD)**

Description	File
Header file defining names and labels for columns in WIMD scores table.	UKB_Wales_WIMD_Header.csv
WIMD 2008 and 2011 scores of the LSOAs within which UK Biobank participant resides.	UKB_Wales_WIMD.csv

- **(English) Index of Multiple Deprivation (IMD)**

Description	File
Header file defining names and labels for columns in IMD scores table.	UKB_London_EID_Header.csv
IMD 2007 scores of the LSOAs within which UK Biobank participant resides.	UKB_London_EID-2007.csv
IMD 2010 scores of the LSOAs within which UK participant resides.	UKB_London_EID-2010.csv

Description of variables used for WIMD scores table

Column No.	Variable	Description
1	Encoded anonymised participant ID	-
2	LSOA_2011_code	2011 lower super output area code
3	LSOA_2011_name	2011 lower super output area name
4	Income_2008_score	WIMD 2008 income domain
5	Employment_2008_score	WIMD 2008 employment domain
6	Health_2008_score	WIMD 2008 health domain
7	Education_2008_score	WIMD 2008 education domain
8	Access_to_services_2008_score	WIMD 2008 access to services domain
9	Housing_2008_score	WIMD 2008 housing domain
10	Physical_environment_2008_score	WIMD 2008 physical environment domain
11	Community_safety_2008_score	WIMD 2008 community safety domain
12	WIMD_2008_score	WIMD 2008 overall score
13	Income_2011_score	WIMD 2011 income domain
14	Employment_2011_score	WIMD 2011 employment domain
15	Health_2011_score	WIMD 2011 health domain
16	Education_2011_score	WIMD 2011 education domain
17	Access_to_services_2011_score	WIMD 2011 access to services domain
18	Housing_2011_score	WIMD 2011 housing domain
19	Physical_environment_2011_score	WIMD 2011 physical environment domain
20	Community_safety_2011_score	WIMD 2011 community safety domain
21	WIMD_2011_score	WIMD 2011 overall score

Description of variables used for WIMD scores table

Column No.	Variable	Description
1	Encoded anonymised participant ID	-
2	LSOA_2001_code	2001 lower super output area code
3	LSOA_2001_name	2001 lower super output area name
4	IMD_SCORE	Overall IMD score
5	INCOME_SCORE	Income domain
6	EMPLOYMENT_SCORE	Employment domain
7	HEALTH_DEPRIVATION_AND_DISABILITY_SCORE	Health deprivation and disability domain
8	EDUCATION_SKILLS_AND_TRAINING_SCORE	Education and skills domain
9	BARRIERS_TO_HOUSING_AND_SERVICES_SCORE	Barriers to housing and services domain
10	CRIME_AND_DISORDER_SCORE	Crime and disorder domain
11	LIVING_ENVIRONMENT_SCORE	Living environment domain
12	INDOORS_SUB_DOMAIN_SCORE	Indoors sub-domain
13	OUTDOORS_SUB_DOMAIN_SCORE	Outdoors sub-domain
14	GEOGRAPHICAL_BARRIERS_SUB_DOMAIN_SCORE	Geographical barriers sub-domain
15	WIDER_BARRIERS_SUB_DOMAIN_SCORE	Wider barriers sub-domain
16	CHILDREN_YOUNG_PEOPLE_SUB_DOMAIN_SCORE	Children young people sub-domain
17	SKILLS_SUB_DOMAIN_SCORE	Skills sub-domain
18	IDACI_SCORE	Income Domain Affecting Children Index score
19	IDAOPi_SCORE	Income Deprivation Affecting Older People Index score