

An HDRUK Dataset: Linked Health **And Air Quality Data For Older Adults**

Data range for infographic: 01.01.2000-31.08.2023 Other extended time periods are available on request

An HDRUK QQ2 highly granular longitudinal dataset of 3,175,299 admissions for patients aged 65+, linkingDEFRA air pollution data to acute care presentations, includes acuity, respiratory data, medications and outcomes to assess environmental health impacts.

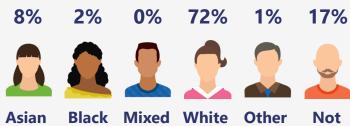
Demographic

The dataset includes patients aged 65+:

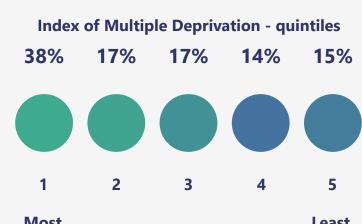
- Female **51%**
- Male **49%**

deprived

58% of the population live in Birmingham local authority district and 19% of the population live in Solihull local authority district.



African **Stated** Caribbean



Most Least

deprived

Index of multiple deprivation

Individual deprivation scores are available including:

- Education, skills and training deprivation
- **Employment deprivation**
- Crime deprivation
- Health and disability deprivation
- Income deprivation

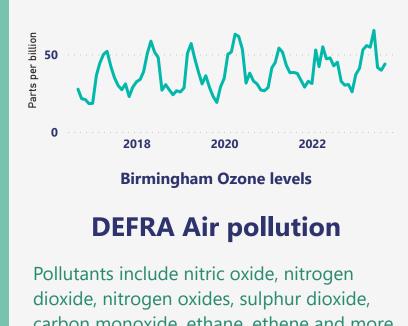
And other deprivation scores.



Top DEFRA stations patients live near:

- 131K Birmingham Acocks Green
- 130K Birmingham Tyburn

Other DEFRA stations are available



carbon monoxide, ethane, ethene and more.

Other pollutants are available

Inpatient care

- 3,175,299 Hospitalised spells; containing 453,573 unique patients matched
- 11M days worth of hospital data with an average in-hospital length of stay of 3.5 day
- In-hospital mortality rate of 3% with 91% of patients surviving 12 months after discharge

Over 35M records of hourly measured DEFRA air quality data available across the UK.

DEFRA Weather DEFRA data includes weather variables such as temperature, windspeed and wind direction. **Birmingham temperature** 2019 2020 2021 2022 2023

DEFRA Stations map United I Isle of Man Dublin Ireland

Leaflet | Icon Map | Map data @ OpenStreetMap, Tiles courtesy of gie / Bel

Humanitarian OpenStreetMap Team