



Clean Air Programme

Data Science in Air Quality and Health Research Workshop

16th & 17th September 2021

Data sets of interest to data science in air quality and health.

As part of the work in preparation for the Data Science in Air Quality and Health workshop datasets have been gathered together and updated as part of the active discussion at the workshop. Below is a list of datasets pertinent to data science in air quality and health which will be of use to collaborations going forwards. Please take a look and let us know if there are others to add that you have worked with or have knowledge of.

- RCGP Research and Surveillance Centre (RSC) <https://www.rcgp.org.uk/clinical-and-research/our-programmes/research-and-surveillance-centre/public-health-data.aspx>
- NHS Digital databases - Primary Care: <https://digital.nhs.uk/services/general-practice-extraction-service>
- NHS Digital databases - Secondary Care, Hospital Episodes and Statistics (HES) <https://digital.nhs.uk/data-and-information/data-tools-and-services/data-services/hospital-episode-statistics>
- Years lost of life from various diseases <https://digital.nhs.uk/data-and-information/find-data-and-publications/supplementary-information/2019-supplementary-information-files/years-of-life-lost-due-to-mortality-from-various-causes-dsr-1-74-year>
- Clinical Practice Research Datalink (CPRD) www.cprd.com
- COVID 19 and NHS (UK) <https://coronavirus.data.gov.uk/>
- Public Health Profiles by district including Extra Winter Mortality <https://fingertips.phe.org.uk/search/excess%20winter%20deaths>
- Excess deaths (England Wales) <https://fingertips.phe.org.uk/static-reports/mortality-surveillance/excess-mortality-in-england-latest.html>
- Excess Winter Deaths (England and Wales) <https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/bulletins/excesswintermortalityinenglandandwales/2019to2020provisionaland2018to2019final>
- Weekly England and Wales Mortality (back to 2010) <https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/datasets/weeklyprovisionalfiguresondeathsregisteredinenglandandwales>
- European Mortality Monitoring <https://www.euromomo.eu/>
- UK Biobank <https://www.ukbiobank.ac.uk/>

- Longitudinal Surveys: e.g. Avon Longitudinal Study of Parents and Children (ALSPAC) <http://www.bristol.ac.uk/alspac/researchers/our-data/>
- Born in Bradford <https://borninbradford.nhs.uk/>
- Registries e.g. [United Kingdom association of cancer registries \(ukacr\) Cancer incidence and mortality data by Cancer Network in England](#) Cancer registry as an example or others: CancerStats or HeartStats (Charity Sector)
- UK-air <https://uk-air.defra.gov.uk/>
- The Automatic Urban and Rural Network (AURN) – <https://uk-air.defra.gov.uk/networks/network-info?view=aurn>
- Londonair - <https://www.londonair.org.uk/LondonAir/Default.aspx>
- Airbase - [Air Quality e-Reporting \(AQ e-Reporting\) — European Environment Agency \(europa.eu\)](#)
- CEDA <https://www.ceda.ac.uk/>
- NERC Environmental Data Service (EDS) <https://nerc.ukri.org/research/sites/environmental-data-service-eds/>
- Defra UK modelled air pollution maps: <https://uk-air.defra.gov.uk/data/pcm-data>
- DAFNI <https://dafni.ac.uk/>
- The National Atmospheric Emissions Inventory <https://naei.beis.gov.uk/>
- European Emissions Data e.g. EMEP ([link](#)), Copernicus ([Link](#))
- Biogenic Emissions Data e.g. MEGAN ([link](#))
- Upper Air Pollution Concentration Data
- National and local emissions inventories eg NAEI, LAEI <https://data.london.gov.uk/air-quality/>
- European Air Pollution Concentration Data – European Environmental Agency ([Link](#))
- Environmental Information Data Centre <https://eidc.ac.uk/>