



PIONEER

Health Data Research Hub

NIHR

Birmingham Biomedical
Research Centre



**UK Research
and Innovation**

Admission Patterns In Multiple Long-Term Conditions: NIHR/UKRI ADMISSION Dataset

Data range for infographic: 01.01.2018-31.12.2018

Other extended time periods are available on request

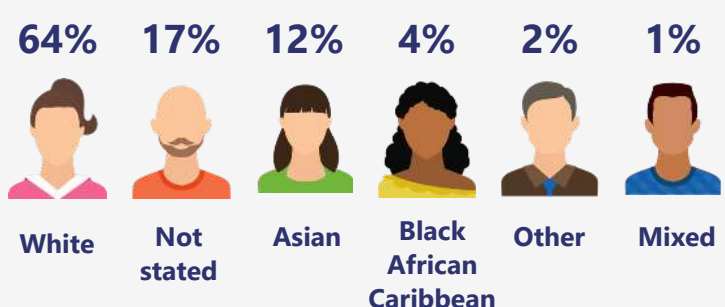
Longitudinal data (>10 years) for >70,000 patients, including accrual of comorbidities, acute admissions and outcomes, detailed demographics, ICD10 codes, and time-stamped acute care data including acuity, physiology, investigations and medicines.

Demographics

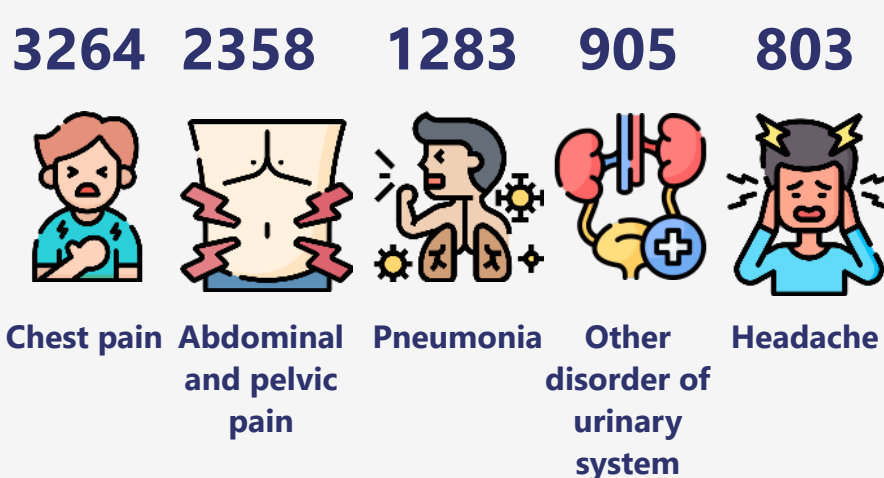
The dataset includes:

- young adults **8%** (ages 18-25)
- adults **53%** (ages 26-64)
- elderly **39%** (ages 65+).

Based on patients postal codes and the index of multiple deprivation; **41%** of patients come from most deprived areas and **8%** are from least deprived areas.



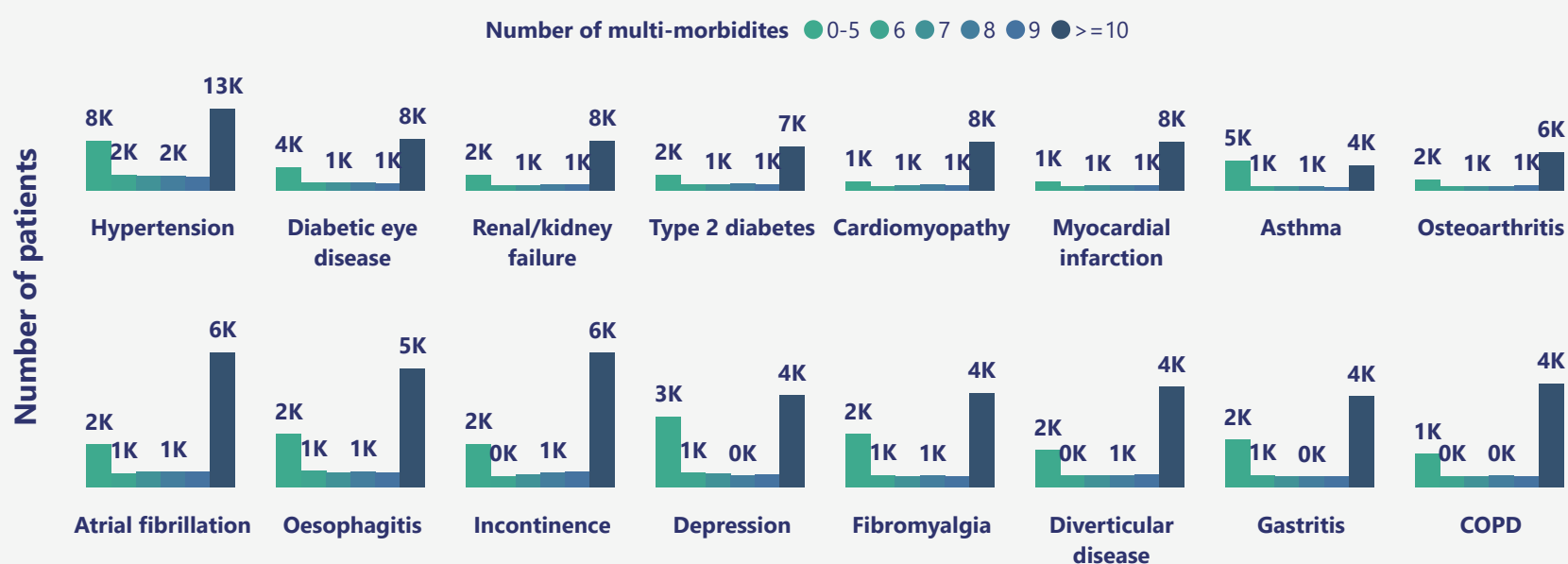
Top 5 primary ICD10 diagnoses



Diagnoses

- **Over 6M** diagnoses recorded
- **5M** Discharge diagnoses recorded
- **328K** Presenting conditions recorded
- **181K** Admitting diagnoses recorded
- **117K** Clinical diagnoses recorded
- **10K** distinct ICD10 diagnoses
- **4K** distinct SNOMED diagnoses

Top multi-morbidity

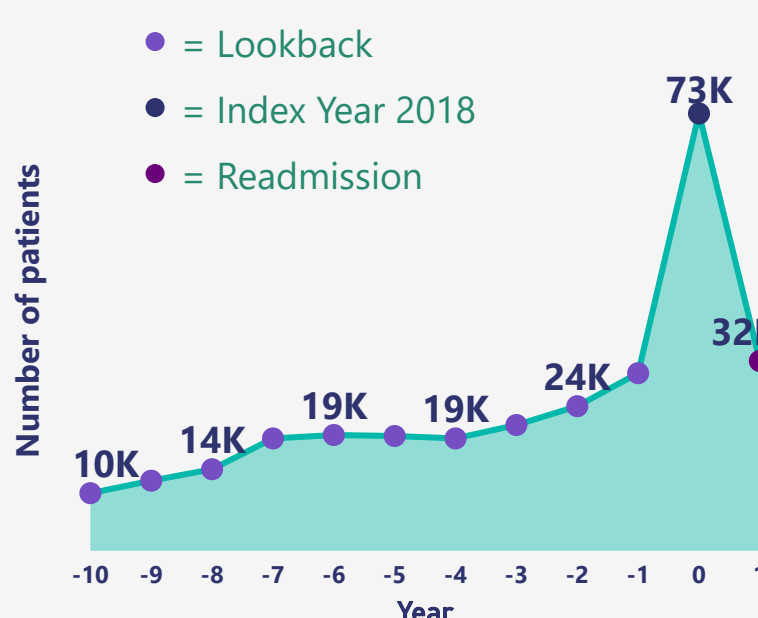


Other 90 conditions are available.

Inpatient care

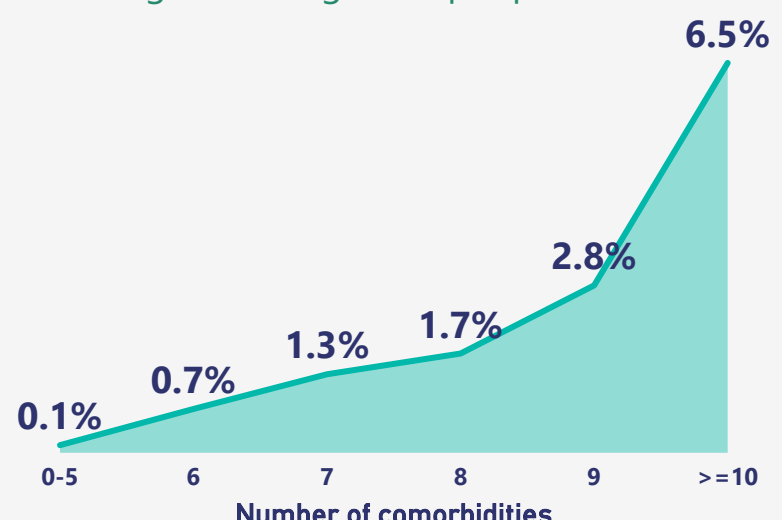
- **8.19GB** worth of data, one of Europe's most diverse and non-transient populations
- **72,862** unique patients with at least one hospital admission in the calendar year 2018
- **42.6%** of patients were readmitted to hospital within one year post discharge
- In-hospital mortality rate of 1.11% and 91% of patients surviving 12 months after discharge

Lookback and readmission



Mortality by comorbidity

Over **70K** clinically coded ICD10 spells with an average of 4 diagnoses per patient



Other associated data available upon request

Contact us at:
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