



PIONEER

Health Data Research Hub

NIHR

Birmingham Biomedical Research Centre

A NIHR Birmingham BRC Dataset: Macrolide Use In Patients With Viral Pneumonia

Data range for infographic: 01.01.2018-25.09.2023
Other extended time periods are available on request

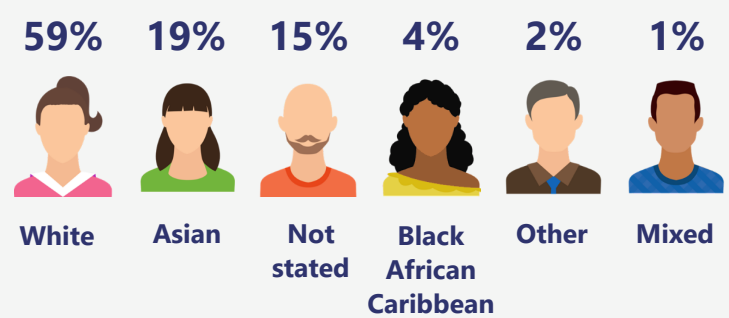
A NIHR Birmingham BRC, highly granular dataset of 2,692 viral pneumonia admissions, curated with respiratory clinicians and PIONEER, including demography, symptoms, physiology, investigations, treatments (drug, dose, route), outcomes and severity scores.

Demographic

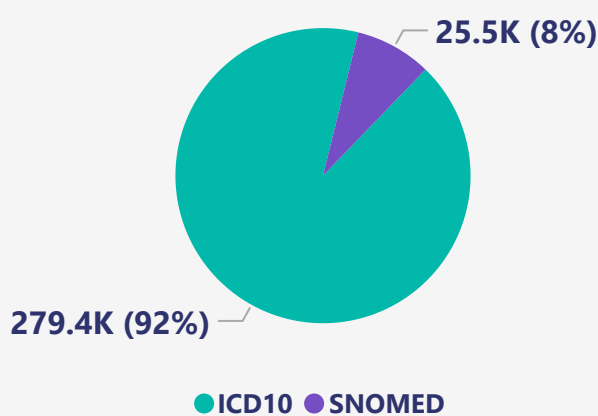
The dataset includes:

- Young adults **8%** (ages 18-24)
- Adults **45%** (ages 25-64)
- Older adults **47%** (ages 65+)

46% of the population attended Queen Elizabeth Hospital Birmingham, **34%** attended Birmingham Heartlands Hospital and **20%** attended Good Hope Hospital.



Coding system



Comorbidities

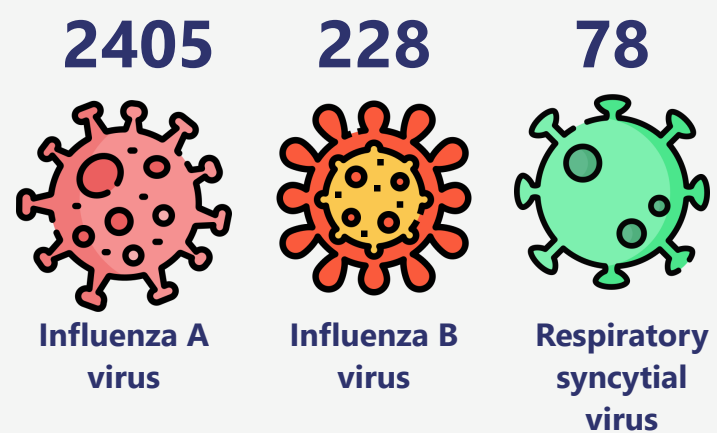
Top 5 inpatient primary ICD10 diagnoses are:

- Influenza with other respiratory manifestations **1429** spells
- Influenza with pneumonia **451** spells
- Chest pain **336** spells
- Lobar pneumonia, unspecified **250** spells
- Asthma, unspecified **219** spells



Macrolides

- **1237** Clarithromycin prescriptions
- **58** Azithromycin prescriptions
- **25** Erythromycin prescriptions



Virus

- **78K** Salbutamol administrations
- **59K** Co-amoxiclav administrations
- **40K** Amoxicillin administrations

Inpatient care

- **2,692 Hospitalised spells;** containing **2,651** unique patients with viral pneumonia
- **18K** days worth of hospital data with an average in-hospital length of stay of 6 days
- 30 day mortality rate of 0.5% and 90 day mortality rate of 1%
- The average worst Glasgow Coma scale (GCS) is 14 with median of 15

Observations

Observations include Clinical frailty score, Smoking status, Heart rate, Respiratory rate, SpO2, FiO2, Glasgow coma score, AVPU, BMI and more.



Other observations are available

Laboratory tests

Laboratory tests include Sodium, Potassium, Urea, Creatinine, Estimated GFR, C reactive protein and more.



Other laboratory tests are available