

# NILLER Birmingham Biomedical Research Centre

# A NIHR Birmingham BRC Dataset Of Community Acquired Pneumonia (CAP) And Frailty

### Data range for infographic: 01.09.2019-31.01.2022 Other extended time periods are available on request

A NIHR Birmingham BRC, highly granular dataset of 2,158 community acquired pneumonia spells curated by PIONEER, including demography, comorbidities, frailty, symptoms, physiology, acuity, investigations, treatments (drug, dose, route) and outcomes.

## Demographic

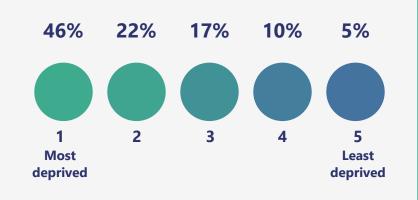
The dataset includes:

6%

- Young adults **2%** (ages <=24)
- Adults **24%** (ages 25-64)
- Older adults 74% (ages 65+)

80% of patients are of White ethnic background.Followed by 10% Asian, 2% Black, African orCaribbean, 1% Mixed and 7% Other/Not stated.

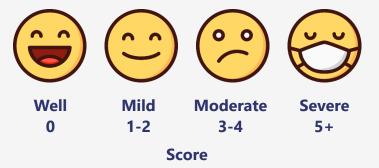
29%



## Comorbidities

53%

Top 5 inpatient ICD10 diagnoses are:

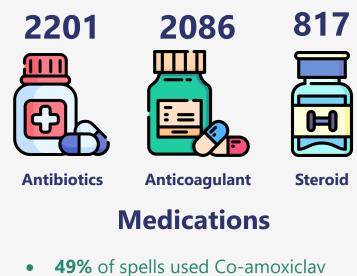


**Charlson Comorbidity Index** 

12%

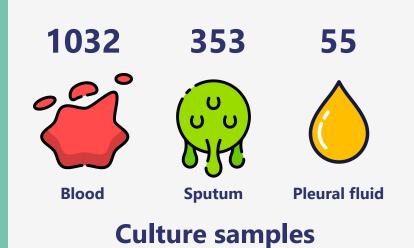
- Lobar pneumonia **1320** spells
- Essential hypertension 1261 spells
- Pneumonia, unspecified **808** spells
- Atrial fibrillation and flutter **630** spells
- Chronic obstructive pulmonary disease 589 spells

Other comorbidities are available.



- **76%** of spells used Enoxaparin
- **25%** of spells used Prednisolone

Other medications are available



## • **13%** positive blood culture

- **36%** positive sputum culture
- **7%** positive Pleural fluid culture

Other cultures are available

## **Inpatient care**

- 2,293 Hospitalised spells; containing 2,158 unique patients admitted for CAP
- **27K** days worth of hospital data with an average in-hospital length of stay of 11 days
- 30 day mortality rate of 19% with 60% of patients surviving 12 months after discharge
- The average Clinical Frailty Scale is 5 and the average National Early Warning Score is 5



## Readmissions

Percentage of patients readmitted within 30 days:

 13% readmitted to University hospitals Birmingham
3% readmitted to University Hospital Birmingham related to Community Acquired Pneumonia





#### Other associated data available upon request

Contact us at: www.pioneerdatahub.co.uk pioneer@uhb.nhs.uk