

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

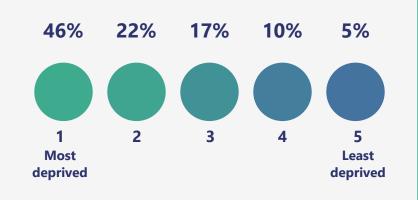
The dataset includes:

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.

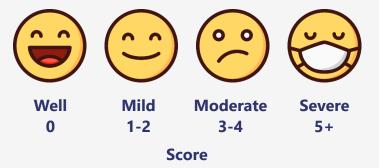
29%



Comorbidities

53%

Top 5 inpatient ICD10 diagnoses are:

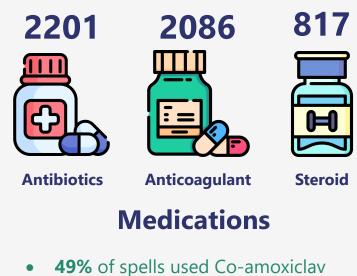


Charlson Comorbidity Index

12%

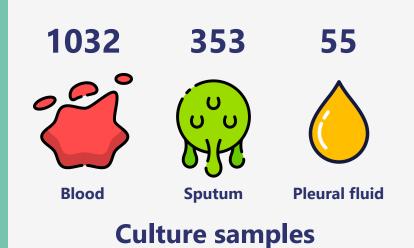
- Lobar pneumonia **1320** spells
- Essential hypertension 1261 spells
- Pneumonia, unspecified **808** spells
- Atrial fibrillation and flutter **630** spells
- Chronic obstructive pulmonary disease 589 spells

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