

# NHR Birmingham Biomedical Research Centre

## An NIHR Birmingham BRC dataset of **Community-Acquired Pneumonia in Older Adults**

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

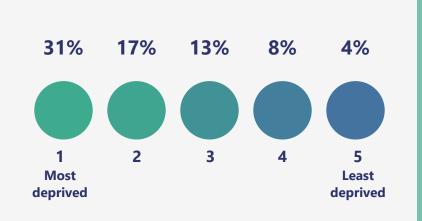
A NIHR Birmingham BRC, highly granular dataset of 1,701 community-acquired pneumonia spells for adults aged 65+, curated by PIONEER. Includes demography, comorbidities, frailty, symptoms, physiology, acuity, investigations, treatments (drug, dose, route) and outcomes.

## Demographic

The dataset includes patients aged 65+:

- Female **52%**
- Male **48%**

**83%** of patients are of White ethnic background. Followed by 8% Asian, 2% Black, African or Caribbean, **1%** Mixed and **6%** Other/Not stated.



#### **Charlson Comorbidity Index**

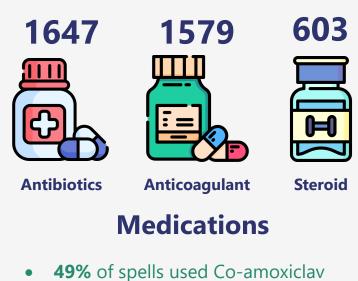
#### **Comorbidities**

Top 5 inpatient ICD10 diagnoses are:



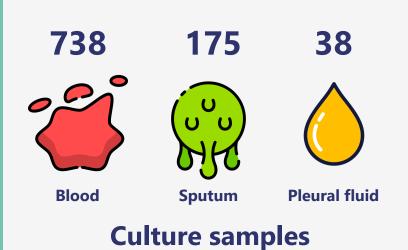
- Essential hypertension **1088** spells
- Lobar pneumonia **971** spells
- Pneumonia, unspecified 635 spells
- Atrial fibrillation and flutter **588** spells
- Chronic obstructive pulmonary disease **489** spells

Other comorbidities are available.



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

Other medications are available



#### **12%** positive blood culture

- 34% positive sputum culture
- 8% positive Pleural fluid culture

Other cultures are available

## **Inpatient care**

- 1,701 Hospitalised spells; containing 1,596 unique patients admitted for CAP
- **20K** days worth of hospital data with an average in-hospital length of stay of 11 days
- 30 day mortality rate of 23% with 53% 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