



# PIONEER

Health Data Research Hub

## HDRUK

Health Data Research UK

### HDRUK Medicine Dataset: Digoxin Repurposing As A Senolytic In Pneumonia

Data range for infographic: 29.07.2016-08.12.2023

Other extended time periods are available on request

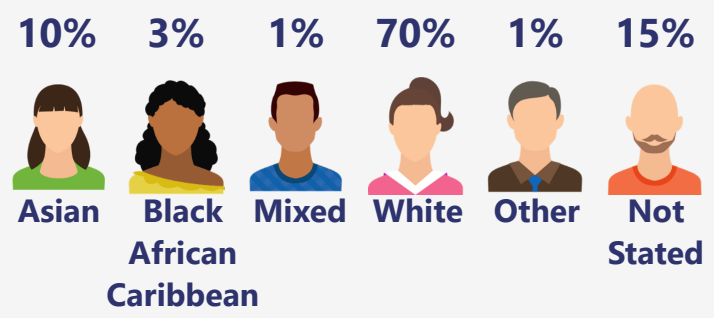
A highly granular dataset of 63K Community Acquired Pneumonia spells curated by PIONEER and the HDRUK Medicines Programme to investigate digoxin as a senolytic, including demography, symptoms, serial physiology, investigations, medications and outcomes.

#### Demographic

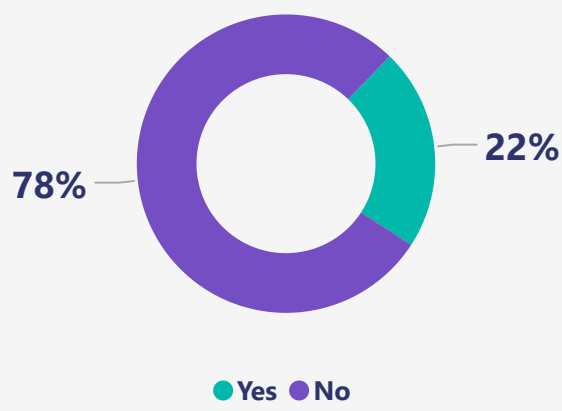
The dataset includes:

- Young adults **1%** (ages 16-24)
- Adults **27%** (ages 25-64)
- Older adults **72%** (ages 65+)

**52%** of the population are male and **48%** of patients are female.



#### Spells with diagnosed asthma



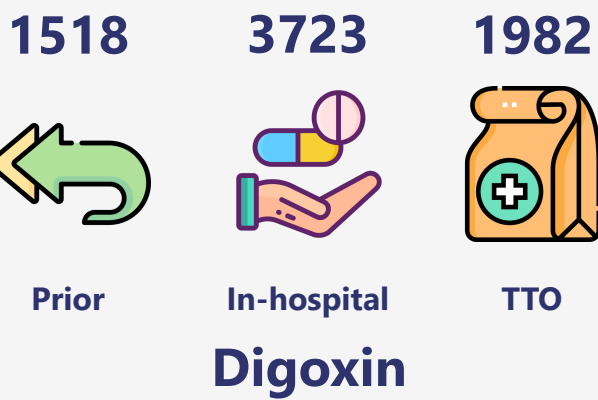
#### Diagnoses

Top ICD10 pneumonia diagnoses in spells are:

- **30K** Lobar pneumonia
- **20K** Unspecified pneumonia
- **11K** Viral pneumonia
- **1K** Bronchopneumonia
- **236** Streptococcus pneumoniae

Other diagnosis details are available.

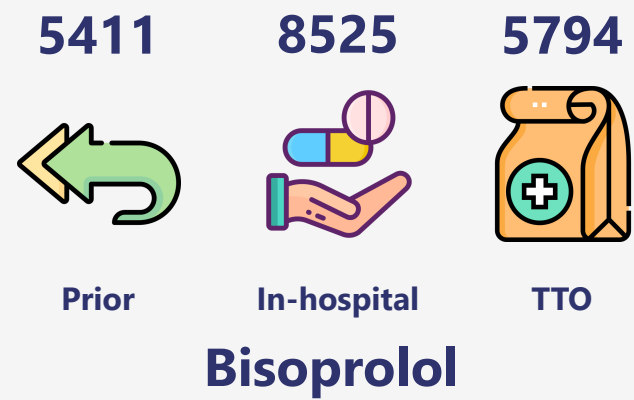
#### Spells who had digoxin



Highest digoxin blood levels are recorded with the average highest digoxin blood level being **1.4** nanograms/mL.

Serial digoxin blood levels are available.

#### Spells who had bisoprolol



**13%** of patients had Bisoprolol prescribed previously, in-hospital or to take out (TTO).

Other prescription details are available.

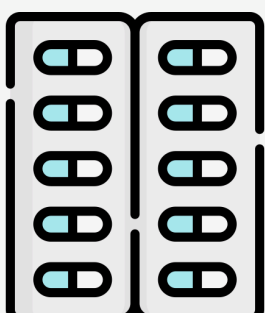
#### Inpatient care

- **63,664 Hospitalised spells;** containing **48,971** unique patients diagnosed with CAP
- **793K** days worth of hospital data with an average in-hospital length of stay of 12 days
- In-hospital mortality rate of 17% and 64% of patients surviving 12 months after discharge
- The median National Early Warning Score is 4 and the median Clinical Frailty Scale is 6

#### Antibiotic

Top antibiotics prescribed are:

- Co-amoxiclav, **10K** spells
- Amoxicillin, **4K** spells
- Clarithromycin, **4K** spells
- Piperacillin/Tazobactam, **3K** spells



#### Influenza / COVID19

Over **18K** influenza tests completed and **29K** COVID19 tests done. **117** patients with positive influenza test and **8K** patients with positive COVID19 test.

