



# PIONEER

## Health Data Research Hub

**NIHR** | Midlands Patient Safety  
Research Collaboration

## NIHR PSRC: A dataset comparing Acute COPD In-patient and Virtual Ward Admissions for Older patients

Data range for infographic: 01.01.2019-31.05.2024

Other extended time periods are available on request

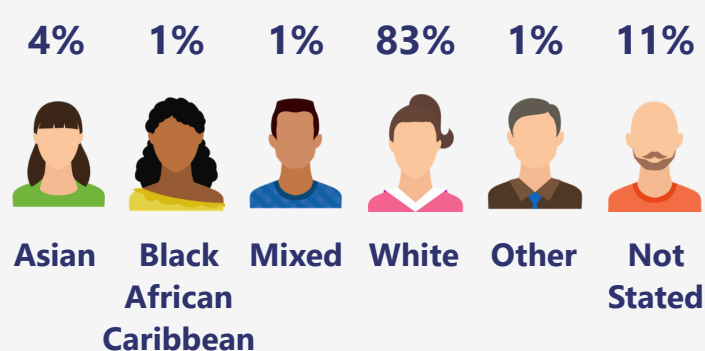
NIHR PSRC dataset of 31,804 aged 65+ acute COPD exacerbation admissions (2019-24) with detailed demography, comorbidities, symptoms, serial physiology, tests, lung function, DECAF, medicines, incidents, and outcomes, including patients admitted to Virtual Ward.

### Demographic

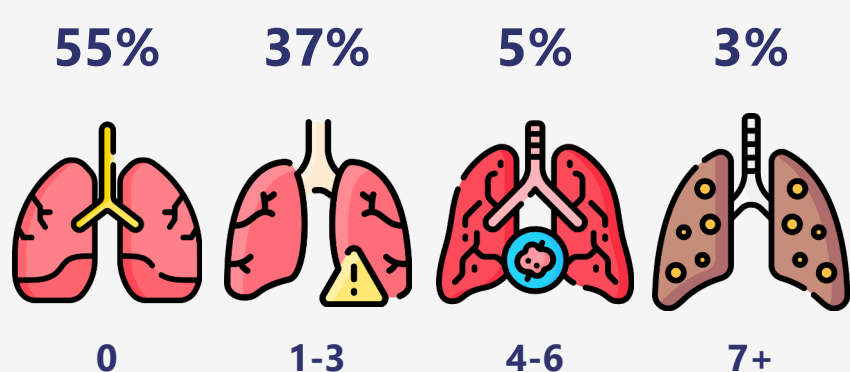
The dataset includes:

- **36%** aged 65-74
- **43%** aged 75-84
- **21%** aged 85+

Based on the index of multiple deprivation map, **52%** of the population are from most deprived areas and **7%** of patients are from least deprived areas.



### Number of Acute Exacerbation of COPD admissions within last 12 months

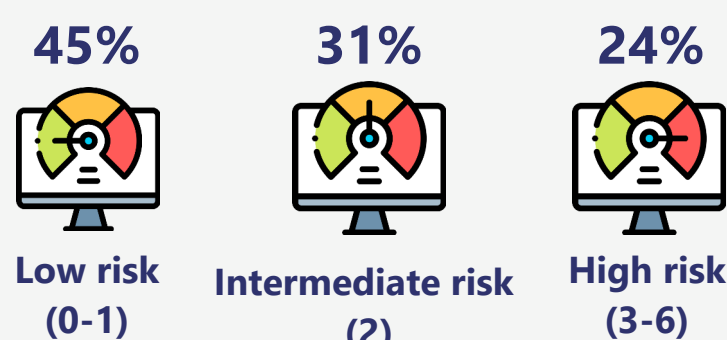


### Chronic Obstructive Pulmonary Disease

Acute Exacerbation of COPD spells diagnosed with ICD10:

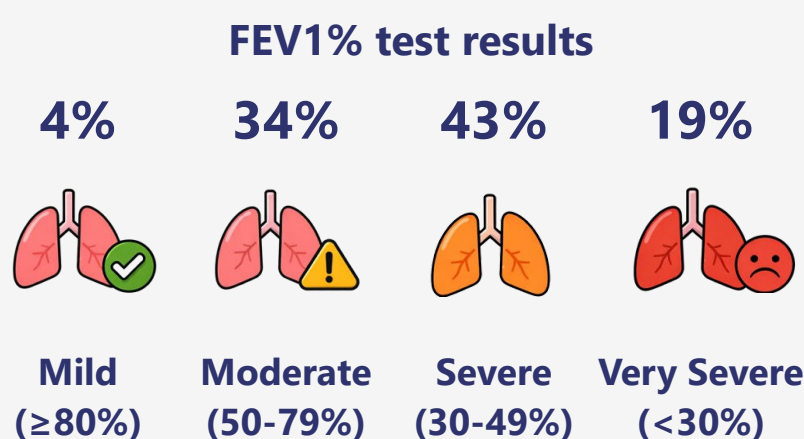
- Emphysema **8K**
- Bronchiectasis **4K**
- Asthma **2K**

Other diagnosis are available.



### DECAF score

The average DECAF score is 1.73 with a median of 2.



### Lung function

- **20K** Spells with capillary blood test
- **2K** Spells with spirometry test

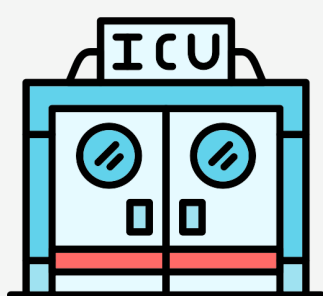
Other lung function tests are available.

### Inpatient care

- **31,804 Hospitalised spells;** containing **14,834** unique patients admitted with AECOPD
- **327K** days worth of hospital data with an average in-hospital length of stay of 10 days
- In-hospital mortality rate of 11% and 89% of patients surviving 90 days after discharge
- The average initial National Early Warning Score is 4.3 with a median of 4

### Intensive care

- Over **1k** spells admitted to ICU
- **77%** of ICU admissions had non-invasive mechanical ventilation
- **50%** of ICU admissions had invasive mechanical ventilation

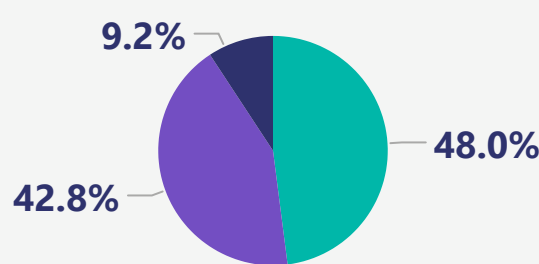


Other ICU details are available.

### Hospital adverse event

- **5%** of spells had a fall incident
- **11%** of spells had a pressure sores

#### Pressure sores types



Other incident data are available.