PIONEER
Health Data Research Hub

Improving Care for Suspected Myocardial Infarction in Patients Aged 65 and Over

Data range for infographic: 01.11.2021-31.10.2022
Other extended time periods are available on request

A granular dataset of >16k presentations for suspected myocardial infarction in patients aged 65+. Includes demographics, comorbidities, symptoms, ECGs, lab results (troponins), imaging, procedures, medications, mortality and readmissions.

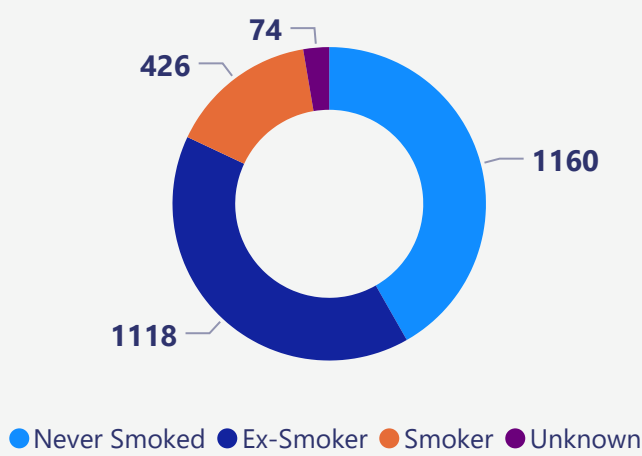## Demographic

The dataset includes patients aged 65+:
- Female **52%**
- Male **48%**

Based on the Townsend Deprivation Index calculation, **31%** of the population are from most deprived areas and **15%** of patients are from least deprived areas.

Asian	Black African Caribbean	Mixed	White	Other	Not Stated
10%	2%	0%	70%	2%	15%

Smoking Status

- 1160
- 1118
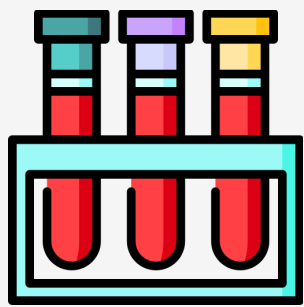- 426
- 74

● Never Smoked ● Ex-Smoker ● Smoker ● Unknown

Diagnoses

Top 3 inpatient ICD10 diagnosis are:
- Acute subendocardial myocardial infarction **519** spells
- Acute transmural myocardial infarction of inferior wall **115** spells
- Acute transmural myocardial infarction of anterior wall **93** spells

Other diagnoses details available

Lab Analysis

- **21** IQR of cardiac troponin
- **71** median result of EGFR
- **130** median result of haemoglobin

Other lab details available

Procedures

- Percutaneous coronary intervention **1538** spells
- Coronary bypass grafting **160** spells

Other procedure details available

Inpatient care

- **16,638** index emergency admissions with possible myocardial infarction.
- **99K** days worth of hospital data with an average in-hospital length of stay of **5** days.
- Mortality rate of **6%** and **94%** of patients surviving within 30 days from discharge.
- **9,491** outpatient admission 100 days after hospital discharge.

Medications

- **447** Lipid Lowering therapy
- **332** Antiplatelet drug
- **292** ACE inhibitors
- **64** Beta blocker

Other medication details available

Discharge Location

- **14K** Home
- **381** Care Home
- **193** Health care provider

Other discharge location details available