PIONEER
Health Data Research Hub

NHS Priority Challenge: Improving Medical Care In Unplanned, Emergency Services

Data range for infographic: 01.01.2023-31.12.2023
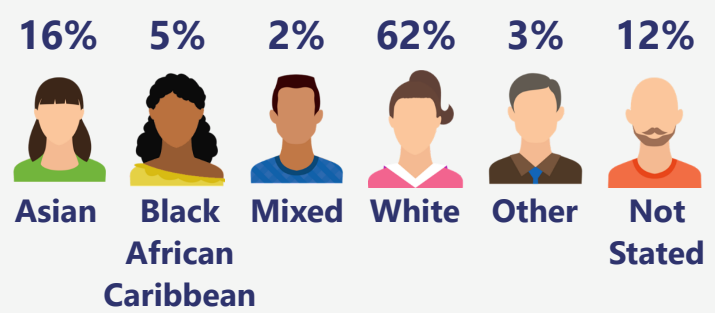**Other extended time periods are available on request**

A highly granular dataset of 35k acutely unwell patients referred to medicine from Emergency Departments, including demography, serial physiology and acuity, presenting symptoms, investigations and results, ward locations and outcomes.
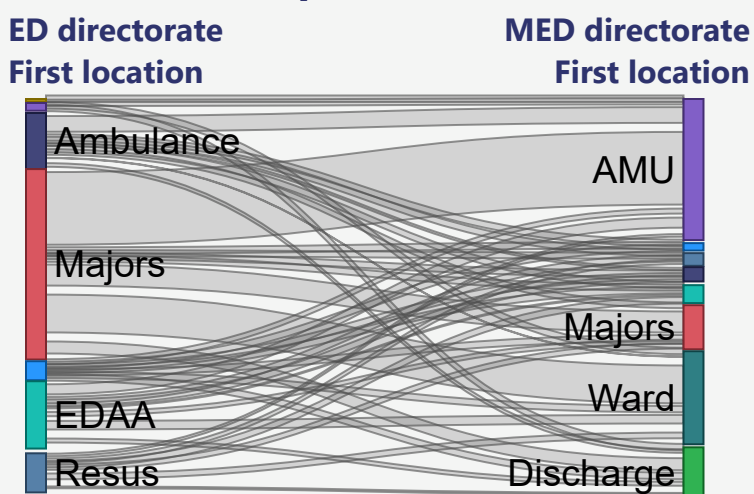
Demographic

The dataset includes:
- Young adults **6%** (ages 18-24)
- Adults **47%** (ages 25-64)
- Older adults **47%** (ages 65+)

Based on the index of multiple deprivation map, **49%** of the population are from most deprived areas and **5%** of patients are from least deprived areas.

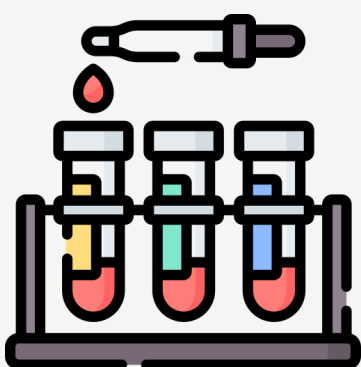| 16%	5%	2%	62%	3%	12%
Asian	Black African Caribbean	Mixed	White	Other	Not Stated

Acute medical unit

AMU patient flow

ED directorate First location
- Ambulance
- Majors
- EDAA
- Resus

MED directorate First location
- AMU
- Majors
- Ward
- Discharge

77% of Acute Medical Unit (AMU) patients are admitted to AMU with the remaining **23%** of AMU patients treated as a medical outlier.
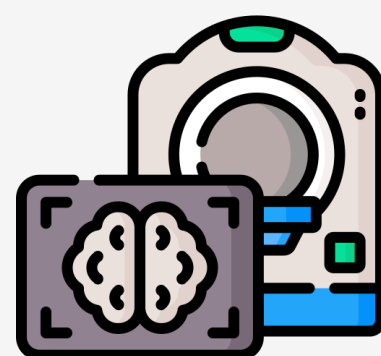
The average time to get admitted into AMU is 12 hours with a median of 9 hours.
The average length of stay in AMU is 20 hours with a median of 8 hours.

Blood tests

- **34%** of patients have blood tests in AMU
- **15%** of medical outliers have bloods taken

Medical imaging

- **34%** of patients have medical imaging in AMU
- **20%** of medical outliers have medical imaging

Inpatient care

- **35,419 Hospitalised spells;** containing **26,876** unique patients admitted to AMU
- **200K** days worth of hospital data with an average in-hospital length of stay of 6 days
- In-hospital mortality rate of 3% and a mortality rate of 1% in the acute medical unit
- Average National Early Warning Score is 1 in AMU and the average for medical outliers is 2

Same day emergency care

12,901 hospitalised spells are treated by the same day emergency care (SDEC) team.

% of ED admissions treated by AMU

Other associated data available upon request

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