



PIONEER

Health Data Research Hub

NIHR | Birmingham Biomedical Research Centre

NIHR Birmingham BRC Dataset: Outcomes For Older Adults On Critical Care

Data range for infographic: 01.01.2017-01.03.2023
Other extended time periods are available on request

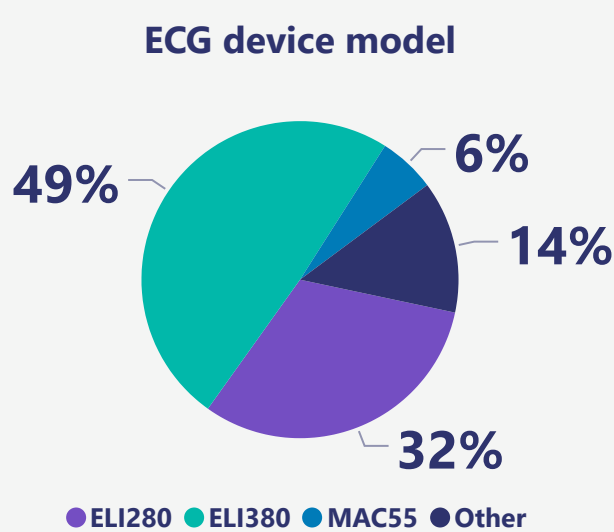
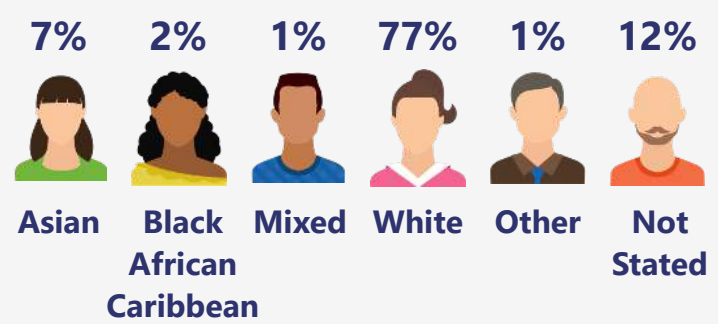
An NIHR Birmingham BRC Dataset of 8,656 intensive care admissions for patients aged 65+. Includes severity scores (APACHE, SAPS, SOFA), investigations, serial physiology, treatments, and outcomes up to one-year post-admission.

Demographic

The dataset includes patients aged 65+:

- Male **60%**
- Female **40%**

Based on the index of multiple deprivation map, **29%** of the population are from most deprived areas and **13%** of patients are from least deprived areas.



Electrocardiogram

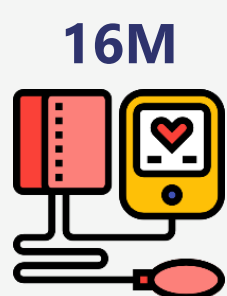
Types of Electrocardiograms:

- 9K** Resting ECG
- 181** Cardiac implant ECG

Electrocardiogram file types:

- 6K** HDCXML files
- 4K** PDF files

Other ECG types and file types are available.



16M

Observations



6M

Laboratory tests

Measurements

5M blood samples, **758K** serum samples and **3K** blood plasma samples recorded.

Other sample types are available.



315K

GCS



22K

SOFA

Severity scoring systems

The median presenting score for:

- Glasgow Coma Scale (GCS) is 12
- Sequential Organ Failure Assessment (SOFA) is 6

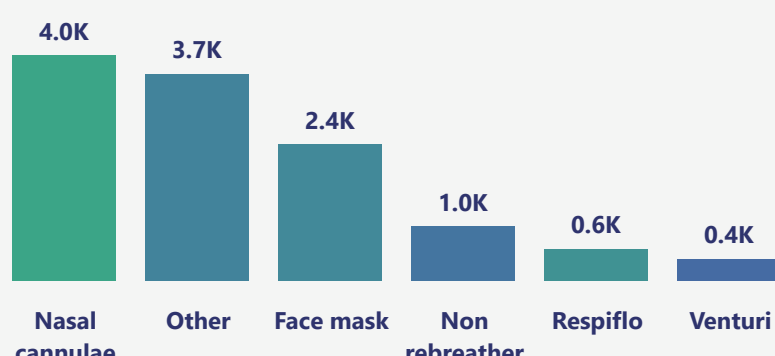
Inpatient care

- 8,656 Hospitalised spells;** containing **8,221** unique patients admitted to critical care
- 165K** days worth of hospital data with an average in-hospital length of stay of 19 days
- In-hospital mortality rate of 15% and 86% of patients surviving 12 months after discharge
- The median National Early Warning Score is 2 and the median Clinical Frailty Scale is 3

Ventilation

- 6M** Ventilation parameters
- 9K** Endotracheal tube spells
- 5K** Spells with tracheostomy

Ventilation Mask Types



Medical procedures

Top 5 medical procedures are:

- 7K** Right sided operations
- 5K** Left sided operations
- 5K** ultrasonic organ approach
- 5K** Radiology of one body area
- 4K** Central venous catheter



Other associated data available upon request

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