

**NILLR** Birmingham Biomedical Research Centre

# **An NIHR BRC Dataset Of Severity Scores** And Outcomes In Critical Care

#### Data range for infographic: 01.01.2017-01.03.2023

Other extended time periods are available on request

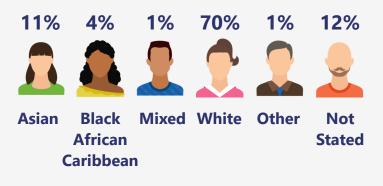
An NIHR Birmingham Biomedical Research Centre dataset of 21,581 intensive care admissions including demographic data, severity scores (APACHE, SAPS, SOFA) with investigations, serial physiology, treatments, and outcomes up to one year post admission.

### Demographic

The dataset includes:

- Young adults **6%** (ages 18-25)
- Adults **56%** (ages 26-64)
- Elderly **38%** (ages 65+)

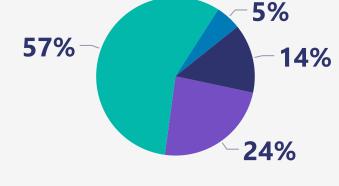
Based on the index of multiple deprivation map, **36%** of the population are from most deprived areas and **10%** of patients are from least deprived areas.



**ECG device model** 

### **Electrocardiogram**





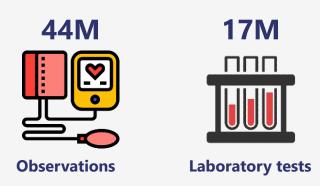
● ELI280 ● ELI380 ● MAC55 ● Other

- 26K Resting ECG
- **1K** Cardiac implant ECG

Electrocardiogram file types:

- **16K** HDCXML files
- **11K** PDF files

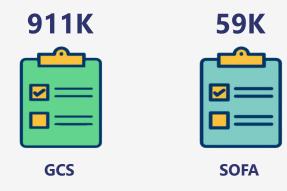
Other ECG types and file types are available.



#### **Measurements**

**15M** blood samples, **2M** serum samples and **15K** blood plasma samples recorded.

Other sample types are available.



### Severity scoring systems

The median presenting score for:

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

### Inpatient care

- 23,098 Hospitalised spells; containing 21,581 unique patients admitted to critical care
- **442K** days worth of hospital data with an average in-hospital length of stay of 19 days
- In-hospital mortality rate of 10% and 81% of patients surviving 12 months after discharge
- The median National Early Warning Score is 2 and the median Clinical Frailty Scale is 3

## Ventilation

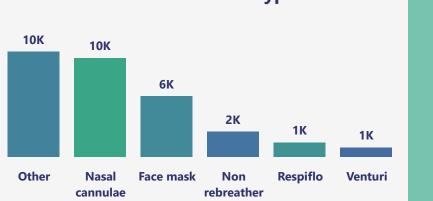
- **17M** Ventilation parameters
- **9K** Endotracheal tube spells
- **4K** Spells with tracheostomy

#### Ventilation Mask Types

## **Medical procedures**

Top 5 medical procedures are:

- **22K** Right sided operations
- **15K** Left sided operations
- 14K ultrasonic organ approach



- 14K Radiology of one body area
- **11K** Central venous catheter



Other associated data available upon request

**Contact us at:** www.pioneerdatahub.co.uk pioneer@uhb.nhs.uk