PIONEER
Health Data Research Hub

NIHR | Birmingham Biomedical Research Centre

NT-proBNP in sepsis patients aged 65+: NIHR Birmingham BRC Dataset

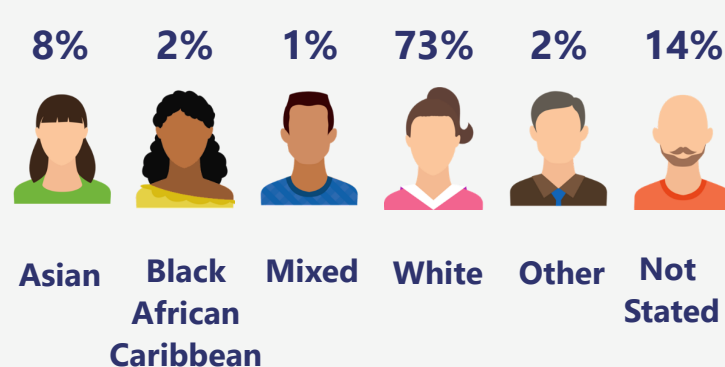**Data range for infographic: 20.03.2017-20.03.2023**
Other extended time periods are available on request

A National Institute for Health and Care Research (NIHR) Birmingham Biomedical Research Centre (BRC) dataset featuring serial NT-proBNP measurements for patients aged 65+ with sepsis, ARDS, and polytrauma admitted to intensive care from a diverse cohort.
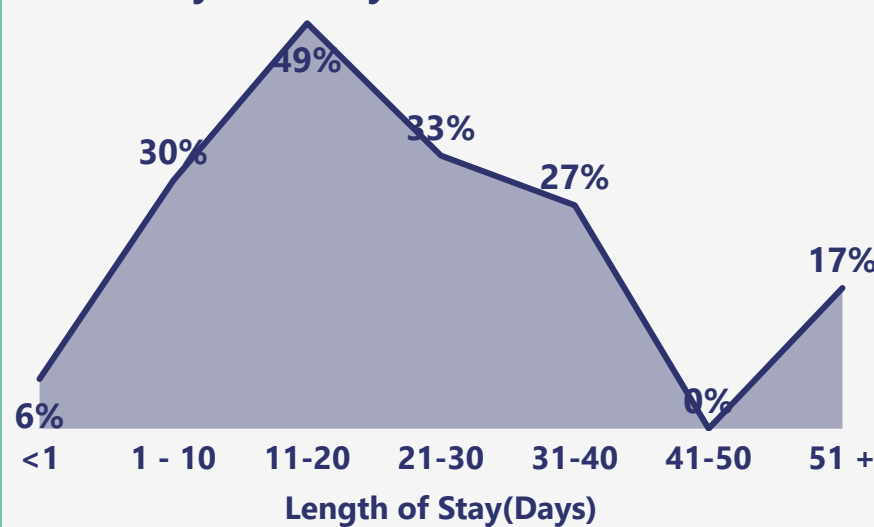
Demographic

The dataset includes patients aged 65+:
· Female **39%**
· Male **61%**

8%	2%	1%	73%	2%	14%
Asian	Black African Caribbean	Mixed	White	Other	Not Stated

Intensive Care Unit

ICU Stay Mortality Rate

- 6% (<1)
- 30% (1 - 10)
- 49% (11-20)
- 33% (21-30)
- 27% (31-40)
- 0% (41-50)
- 17% (51 +)

Length of Stay(Days)

- **3,042** days worth of inpatient stays in ICU
- Average ICU stay of **11** days
- ICU mortality rate is **32%** with **239** patients surviving 6 months after discharge
- The average number of days to death days is **96** days

328
NT-proBNP

Measurements

- **4752.60** average result of NT-proBNP
- **1996** median result of NT-proBNP

3184
Severity Scoring System

Sofa Score

The median presenting score for Sequential organ failure Assessment score is **7**

Inpatient care

- **254** Hospitalised acute spells; containing **253** unique patients admitted to ICU
- **8,565** days worth of inpatient stays with an average in-hospital length of stay of **33** days
- The average baseline result of Estimated glomerular filtration rate (EGFR) is **47.52**

Sepsis

The Top 3 ICD10 Diagnosis:

- **127** Sepsis Unspecified
- **14** Sepsis due to other Gram-negative organisms
- **<10** Septic Shock

S E P S I S

Shiver, fever or very cold | Extreme pain or general discomfort | Pale or discoloured skin | Sleepy, difficult to rouse, confused | "I feel like I might die" | Short of breath

Acute Respiratory Distress Syndrome

- **111** distinct number of patients diagnosed with Adult respiratory distress syndrome (ARDS) or COVID-19 with partial pressure inspired to fractional ratio (PaO2/FiO2 ratio) < 300