



PIONEER

Health Data Research Hub

NIHR | Midlands Patient Safety
Research Collaboration

NIHR Patient Safety Research Collaboration dataset: Medicines and kidney injury

Data range for infographic: 01.01.2019-08.02.2024

Other extended time periods are available on request

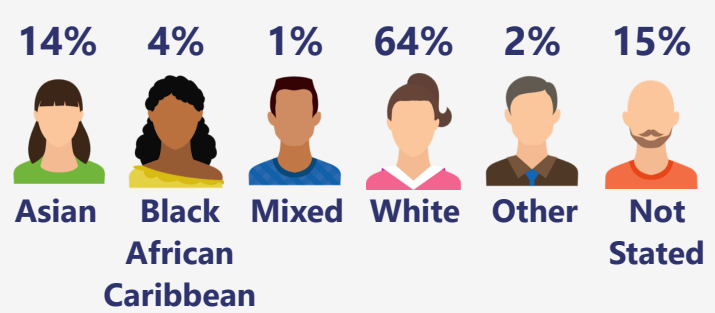
NIHR Midlands Patient Safety Research Collaboration dataset containing **449,472** hospitalised patients, including demographics, comorbidities, renal function, serial physiology and laboratory results, medications with dose and route of administration.

Demographic

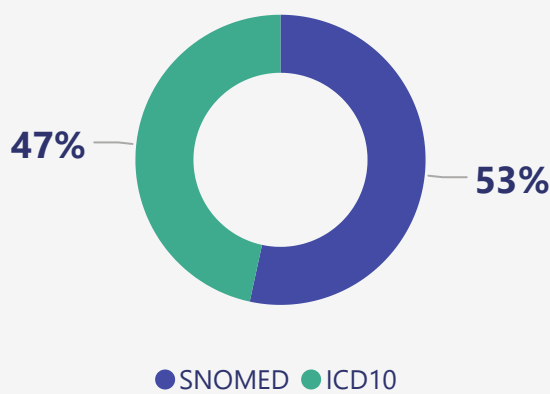
The dataset includes:

- Young adults **9%** (ages 18-24)
- Adults **53%** (ages 25-64)
- Older adults **39%** (ages 65+)

Based on the index of multiple deprivation map, **47%** of the population are from most deprived areas and **11%** of patients are from least deprived areas.



Coding System

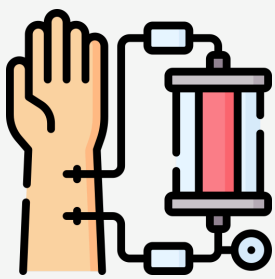


Diagnosis

The top 5 ICD10 diagnosis for renal failure are:

- Acute renal failure, unspecified **58k** spells
- Chronic kidney disease, unspecified **42k** spells
- Chronic kidney disease, stage 3 **34k** spells
- Chronic kidney disease, stage 5 **18k** spells
- Chronic kidney disease, stage 4 **5791** spells

Other comorbidities are available

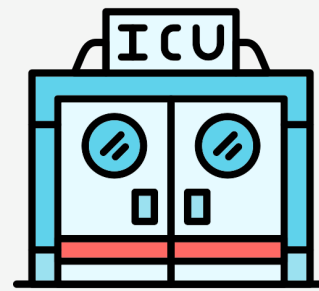


Dialysis

Top 3 Dialysis type are:

- **2802** spells HDF-Post dilution
- **606** High flux hemodiafiltration
- **328** spells UF isolated

Other Dialysis details are available.



Intensive Care Unit

Total of **23K** intensive care unit (ICU) admission with **21K** unique patients. Average length of stay in **ICU** is **5** days.

Other ICU details are available.

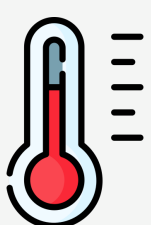
Inpatient care

- **1M Hospitalised spells**; containing **449,472** unique patients admitted to hospital
- **4M** days worth of hospital data with an average in-hospital length of stay of **4** days
- In-hospital mortality rate of **2%** and **98%** of patients surviving **30** days after discharge
- **85%** unplanned admission and **15%** elective admission

Measurement

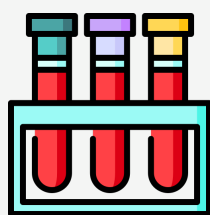
3M Creatinine laboratory test recorded and **1M** Estimated EGFR laboratory test recorded.

121M



Observation

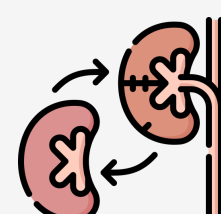
67M



Laboratory tests

Procedure

- **402** spells allotransplantation of kidney from cadaver NEC
- **169** spells allotransplantation of kidney from live donor
- **70** spells other specified transplantation of kidney



Other Procedure are available.