



PIONEER

Health Data Research Hub

Surgical Virtual Ward Outcomes For Patients Aged 65 And Older In New Care Models

Data range for infographic: 01.01.2018-31.08.2023
Other extended time periods are available on request

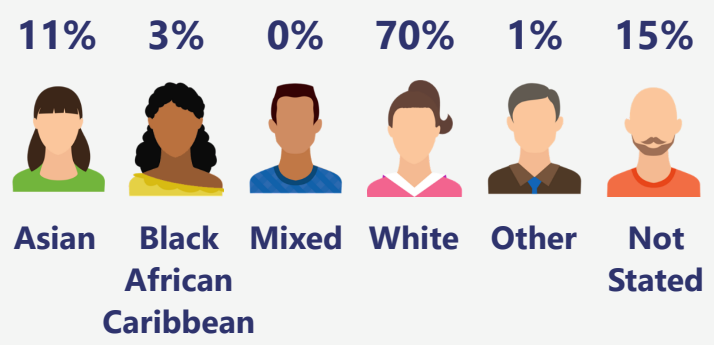
A detailed dataset of 451,306 surgical admissions for patients aged 65 and older, including those admitted to Virtual Surgical Ward. Curated by PIONEER, it covers demography, comorbidities, serial physiology, investigations, treatments, and outcomes.

Demographic

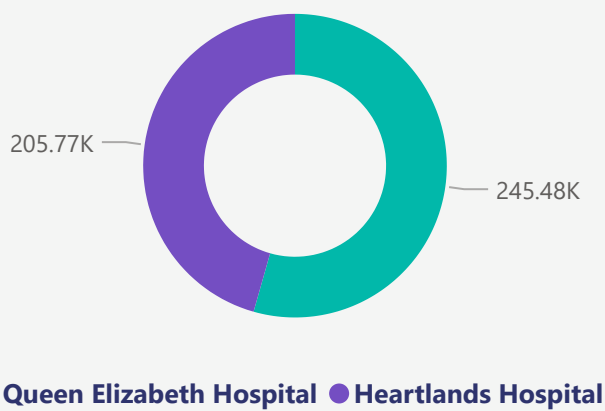
The dataset includes patients aged 65+:

- Female **50.8%**
- Male **49.2%**

Based on the index of multiple deprivation map, **45%** of the population are from most deprived areas and **10%** of patients are from least deprived areas.



VSAU Matched patients



Cohort

56 Virtual Surgical Assessment Unit (VSAU) spells with over **450K** matched patients from Heartlands and Queen Elizabeth hospital for comparison. The eligibility criteria consists of a specific diagnoses, medications, medical procedures and more.



MRCP

4K spells had a Magnetic Resonance Cholangio Pancreatography (MRCP) procedure with a median wait time of **2** days for patients not on VSAU, and a median of **7** days for patients on VSAU.



ERCP

3K spells had a Endoscopic Retrograde Cholangio Pancreatography (ERCP) procedure with a median wait time of **2** days for patients not on VSAU, and a median of **3** days for patients on VSAU.

Inpatient care

- 451,306 Hospitalised spells;** containing **146,802** patients eligible for VSAU
- 176K** days worth of hospital data with an average in-hospital length of stay of 3 day
- In-hospital mortality rate of 3% and 95% of patients surviving 3 months after discharge
- 464** days worth of VSAU data with an average stay of 8 days on the virtual ward

Diagnosis

Over **6M** diagnoses recorded including ICD10, SNOMED and local coding.

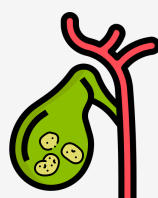
Spells with diagnosed ICD10 conditions

34K



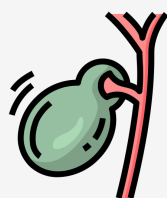
Diverticular disease

17K



Cholelithiasis

2242



Cholecystitis

Other diagnoses are available.

Medications

Over **6M** Prescriptions recorded including To Take Out (TTO) prescriptions with more than **28M** administrations recorded.

