



PIONEER

Health Data Research Hub

NHS Priority Challenge For New Models Of Care: A Surgical Virtual Ward

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

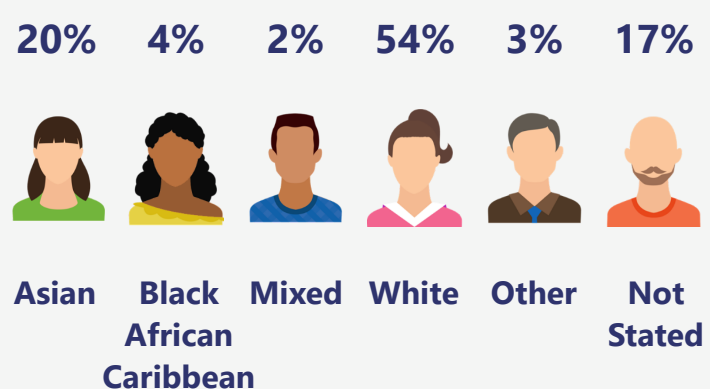
A highly granular dataset of 1,655,756 surgical admissions who were/ere not admitted to a Virtual Surgical Ward, curated by PIONEER, including demography, comorbidities, presenting symptoms, serial physiology, investigations, treatments and outcomes.

Demographic

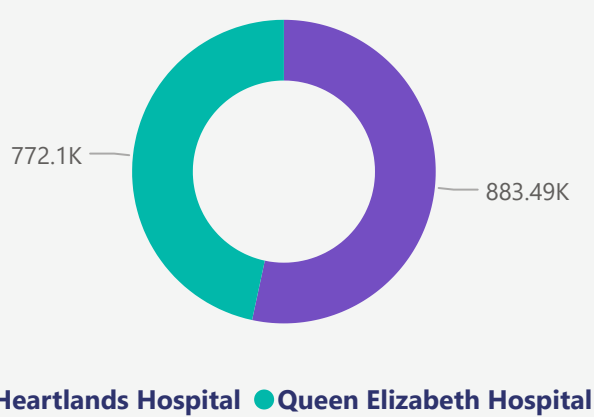
The dataset includes:

- Young adults **24%** (ages 0-24)
- Adults **49%** (ages 25-64)
- Older adults **27%** (ages 65+)

Based on the index of multiple deprivation map, **56%** of the population are from most deprived areas and **7%** of patients are from least deprived areas.



VSAU Matched patients



Cohort

174 Virtual Surgical Assessment Unit (VSAU) spells with over **1.5M** matched patients from Heartlands and Queen Elizabeth hospital for comparison. The eligibility criteria consists of a specific diagnoses, medications, medical procedures and more.



MRCP

4.5K 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 **5** 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 **3.5** days for patients on VSAU.

Inpatient care

- **1,655,756 Hospitalised spells;** containing **656,886** patients eligible for VSAU
- **3M** days worth of hospital data with an average in-hospital length of stay of 1 day
- In-hospital mortality rate of 1% and 98% of patients surviving 3 months after discharge
- 1.3K days worth of VSAU data with an average stay of 6 days on the virtual ward

Diagnosis

Over **12M** diagnoses recorded including ICD10, SNOMED and local coding.

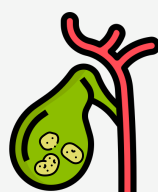
Spells with diagnosed ICD10 conditions

34K



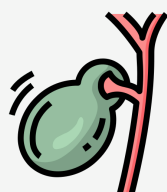
Diverticular disease

17K



Cholelithiasis

2242



Cholecystitis

Other diagnoses are available.

Medications

Over **11M** Prescriptions recorded including To Take Out (TTO) prescriptions with more than **49M** administrations recorded.

