



# 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

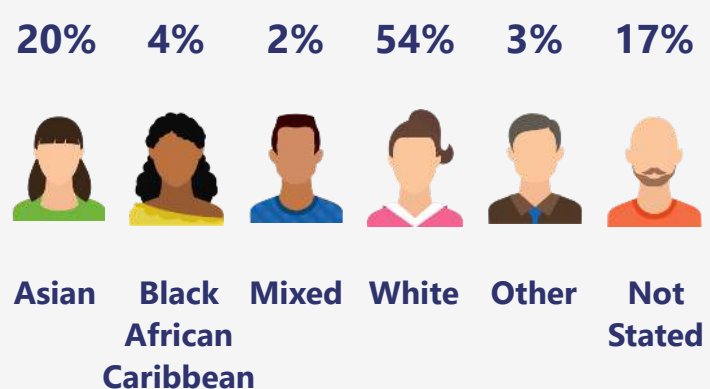
A highly granular dataset of 1,655,756 surgical admissions who were/ere not admitted to a Virtual Surgical Ward, curated by PIONEER, including demography, comorbidities, presenting symptoms, serial physiology, investigations, treatments and outcomes.

### Demographic

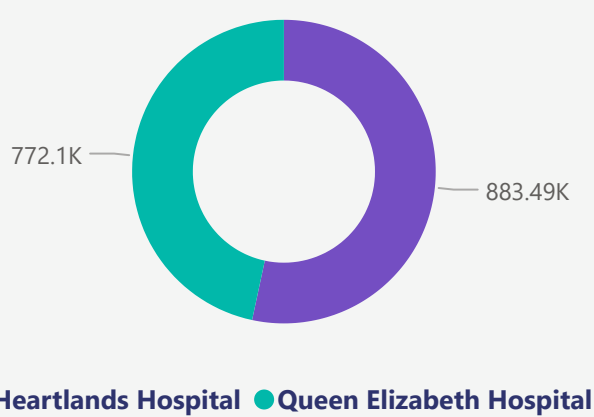
The dataset includes:

- 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.

