



PIONEER

Health Data Research Hub

NIHR | Midlands Patient Safety Research Collaboration

Hospitalised patients with diabetic emergencies & acute diabetic health concerns

Data range for infographic: 16.01.2002-01.01.2022

Other extended time periods are available on request

Each year >1 Million people with diabetes are acutely admitted to hospital due to complications of their illness. This includes Diabetic Hyperosmolar Hyperglycaemic State. Other causes for admission include diabetic ulcers, neuropathies, kidney diseases and associated comorbidities.

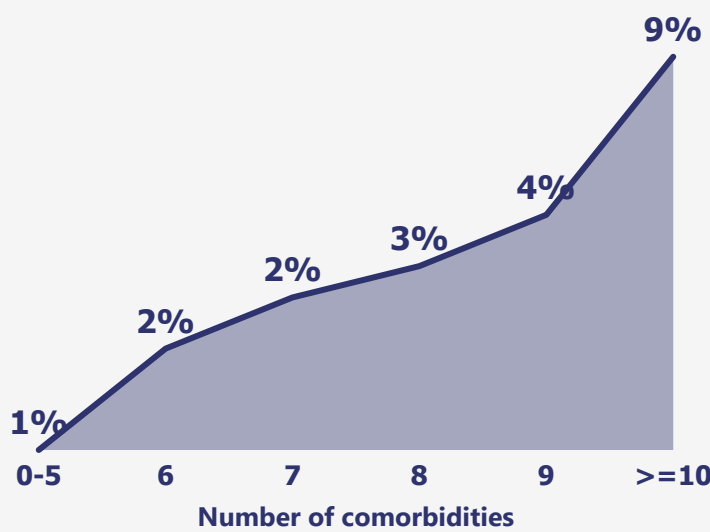
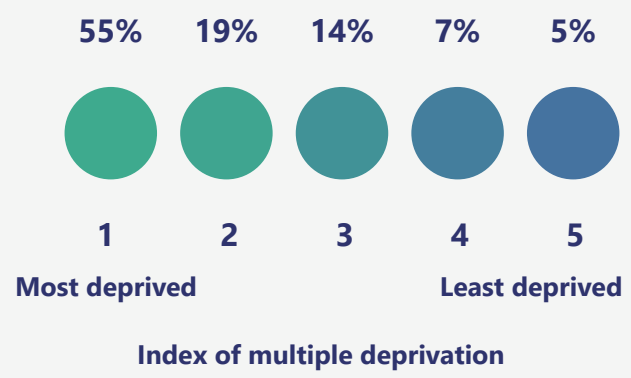
Demographic

The dataset includes:

- children **<1%** (ages 0-16)
- adults **38%** (ages 17-64)
- elderly **62%** (ages 65+).

The majority of the patients are ages 56+, accounting for **77%** of the total population.

The minority being the ages 25 and younger, accounting for only **2%** of the population.



Mortality by comorbidities

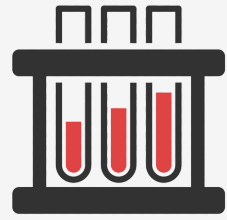
Top 5 diabetic complications in patient spells:

- **99K** Essential Hypertension.
- **29K** Chronic Ischaemic Heart Disease.
- **21K** Atrial Fibrillation and Flutter.
- **18K** Acute Renal Failure.
- **14K** Congestive Heart Failure.

Other diagnoses are available.

30M

Blood tests



Blood tests

- **3M** blood glucose test recorded
- **36K** HbA1c tests completed.

Other blood tests are available.

7.3M

0.2M

IV Injection

0.4M

Subcut Injection

Tablet

Medications

- **310K** Rapid-Acting Insulin Lispro, Aspart and Glulisine.
- **208K** Long-Acting Insulin Glargine, Detemir and Degludec.

Inpatient care

- **168,706 Patient spells;** containing **65,506 unique diabetic patients**
- **1.3M** days worth of inpatient stays with average in-hospital length of stay is 8 days.
- The median presenting Early Warning Score (EWS) is 0 and the average initial EWS is 1.
- **92,855 X-Rays** and **27,752 CT scans** with other imaging and investigations available.

Type of diabetes

- **85%** are Type 2 diabetic.
- **10%** are Type 1 diabetic.
- **5%** are other specified diabetes (malnutrition).

Gestational diabetes is available.



Referrals

- **68K** referrals to General medicine.
- **27K** referrals to Diabetes service.
- **9K** referrals to Cardiology service.
- **7K** referrals to General surgery.
- **2K** referrals to Vascular surgery.

