

# Investigating interactions between Mycobacterium tuberculosis and SARS-CoV-2

Data range for infographic: 01.03.2020-31.10.2020
Other extended time periods are available on request

Highly granular dataset of over 4,000 patients being investigated for TB and Covid-19. Longitudinal linked healthcare utilisation data. Serial physiology readings, lab analysis results, drug administrations and co-morbidities.

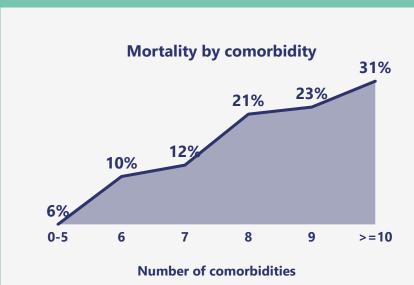
### **Demographic**

The dataset includes:

- children <**1%** (ages 0-16)
- adults **35%** (ages 17-64)
- elderly **65%** (ages 65+).



The majority of the patients are of White ethnic background accounting for **57%** of the population followed by **20%** Unknown, **16%** Asian, **4%** Black/African/Caribbean, **2%** Other and **<1%** Mixed.



#### **Diagnosis**

Top 5 diagnosis in patient spells:

- **13K** Confirmed case of Covid-19
- 10K Coronavirus as the cause of disease
- **9K** Essential (primary) hypertension
- 8K Other viral pneumonia
- **5K** Type 2 diabetes mellitus

Other diagnoses are available.

# **2M**Vital signs and lab tests





#### Measurements

- 900K Observations available
- **637K** laboratory tests available
- 342K blood gas tests available143K O2 saturation recorded
- -30.8% 68.9% -0.3% Covid-19

Covid-19 in ● Wave 1 ● Wave 2 ● Both

For spells with a Covid-19 severity score; 42% of Covid-19 episodes are moderate, 39% of Covid-19 episodes are mild and 18% of Covid-19 episodes are severe.

#### **Inpatient care**

- 4,465 Spells; containing 4,179 patients to investigate TB and Covid-19 interactions
- **55K** days worth of hospital data with an average in-hospital length of stay of 12 days
- **4K** Medical imaging's recorded with over **3k** Chest X-Rays completed for 1,259 patients
- The median presenting Covid-19 Clinical Frailty Scale score (Covid-19 CFS) is 4
  The median presenting National Early Warning Score (NEWS2) is 3 and the average is 4

## **Medications**

**43K** Antibiotics and **9K** Corticosteroids administered. The most common antibiotics and corticosteroids are:



#### **Discharge locations**

- **3K** Discharged home
- **1K** Patient died
- **186** Care home
- **131** Temporary home

Other discharge locations are available

