



PIONEER

Health Data Research Hub

Investigating interactions between Mycobacterium tuberculosis and SARS-CoV-2

Data range for infographic: 01.03.2020-31.10.2020

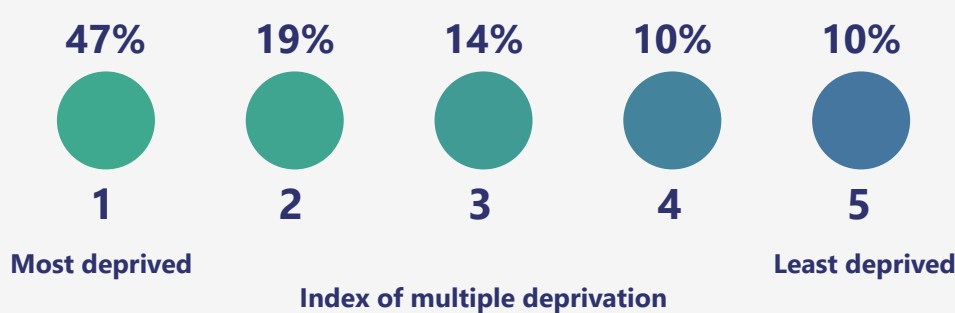
Other extended time periods are available on request

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.

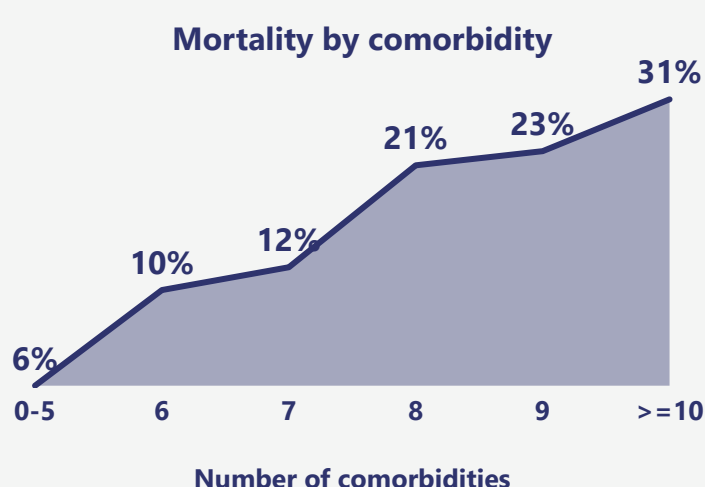
Demographic

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.

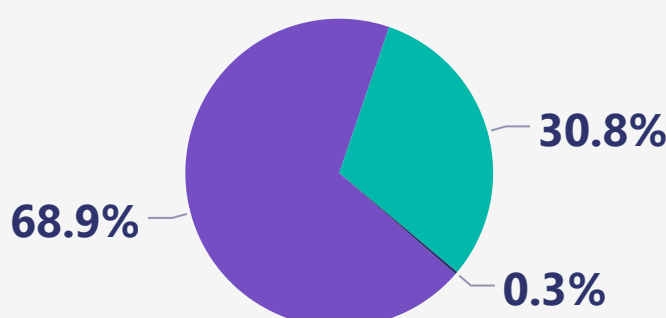
2M Vital signs and lab tests



Measurements

- **900K** Observations available
- **637K** laboratory tests available
- **342K** blood gas tests available
- **143K** O2 saturation recorded

Covid-19 in ● Wave 1 ● Wave 2 ● Both



Covid-19

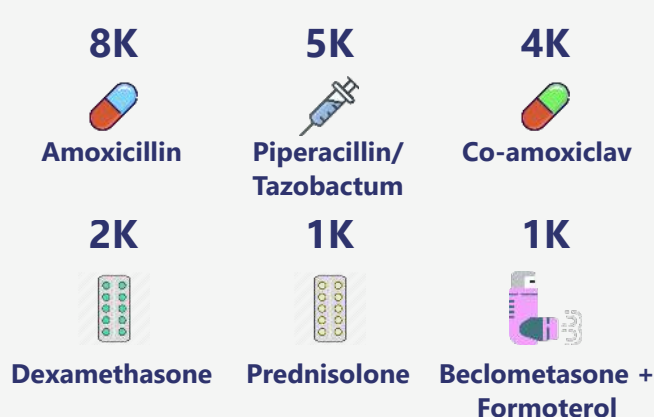
For spells with a Covid-19 severity score; **42%** of Covid-19 episodes are moderate, **39%** of Covid-19 episodes are mild and **18%** of Covid-19 episodes are severe.

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



Other associated data available upon request

Contact us at:
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