



# Corona Virus Report

**XXX XXXX**

XXX

**Reports XXXX**

XXX

**XXX XXX**

XXX

Report for  
Australian Government COVID19

**14 May 2020**

**Our consultancy**  
add names &  
add names

📞 (03) 9905 2478  
✉️ [questions@company.com](mailto:questions@company.com)

ABN: 12 377 614 630

## Australia and USA

```
##  
## Hale Thomas, Sam Webster, Anna Petherick, Toby Phillips, and Beatriz  
## Kira (2020). Oxford COVID-19 Government Response Tracker, Blavatnik  
## School of Government.  
##  
## Our World in Data (2020), https://github.com/owid/covid-19-data  
##  
## Johns Hopkins Center for Systems Science and Engineering (2020),  
## https://github.com/CSSEGISandData/COVID-19  
##  
## CIA - Central Intelligence Agency (2020),  
## https://www.cia.gov/library/publications/the-world-factbook/geos/us.html  
##  
## Guidotti, E., Ardia, D., (2020), "COVID-19 Data Hub", Working paper,  
## doi: 10.13140/RG.2.2.11649.81763.  
##  
## To see these entries in BibTeX format, use 'print(<citation>,  
## bibtex=TRUE)', 'toBibtex(.)', or set  
## 'options(citation.bibtex.max=999)'.  
##  
## To hide the data sources use 'verbose = FALSE'.  
##  
## World Bank Open Data (2018),  
## https://data.worldbank.org/indicator/SP.POP.TOTL  
##  
## Hale Thomas, Sam Webster, Anna Petherick, Toby Phillips, and Beatriz  
## Kira (2020). Oxford COVID-19 Government Response Tracker, Blavatnik  
## School of Government.  
##  
## Our World in Data (2020), https://github.com/owid/covid-19-data  
##
```

```
##   Johns Hopkins Center for Systems Science and Engineering (2020),
##   https://github.com/CSSEGISandData/COVID-19
##
##   Guidotti, E., Ardia, D., (2020), "COVID-19 Data Hub", Working paper,
##   doi: 10.13140/RG.2.2.11649.81763.
##
## To see these entries in BibTeX format, use 'print(<citation>,
## bibtex=TRUE)', 'toBibtex(.)', or set
## 'options(citation.bibtex.max=999)'.
##
## To hide the data sources use 'verbose = FALSE'.
```

We are interested in the impact of COVID19 on the United States of America (USA) and Great Britain (GBR).

From Table ?? we can see that the countries have significantly different death rates with GBR having an average of 7.2% of confirmed cases resulting in death while USA is much lower at 2.8%.

```
covidUSAGBR <- bind_rows(covidUSA, covidGBR) %>%
  mutate(deathrate = 100*(deaths/confirmed)) %>%
  filter(!is.na(deathrate)) %>%
  select(id, date, deaths, confirmed, deathrate)

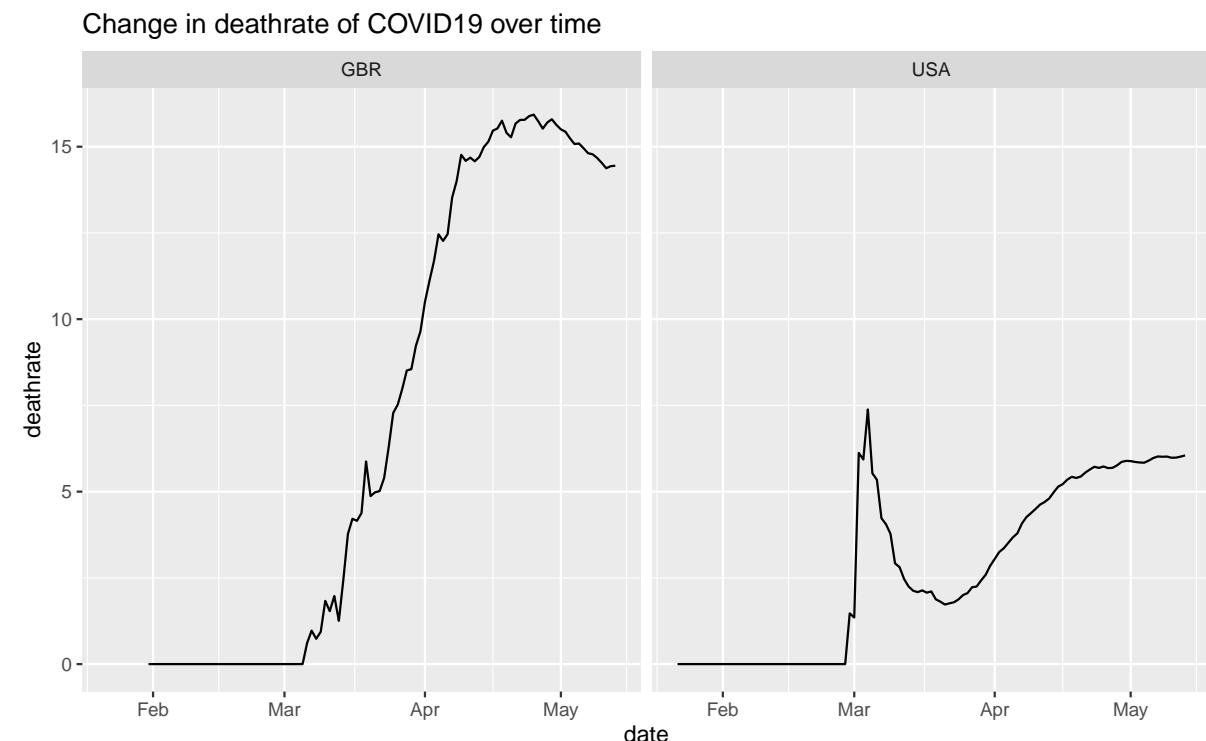
covidUSAGBR %>% summarise(mean(deathrate)) %>%
  kable()
```

id	mean(deathrate)
GBR	7.208312
USA	2.804843

We can also plot how this value changes over time. Figure ?? demonstrates this for both GBR and USA. As can be seen both countries start at a very low death rate for confirmed cases before increasing rapidly. This is followed by a period of steady decline. It should be noted however, that the USA has begun to see a second rise in the deathrate. This may be due to the easing of some restrictions or improvements in testing methods.

covidUSAGBR %>%

```
ggplot(aes(x = date, y = deathrate)) +  
  geom_line() +  
  facet_wrap(~ id) +  
  ggtitle("Change in deathrate of COVID19 over time")
```



**Country XX2 and YY2**

**Country XX3 and YY3**