



Corona Virus Report

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Reports XXXX

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Report for
Australian Government COVID19

Our consultancy
add names &
add names

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21 May 2020

Country XX1 and YY1"

```
covid <- read.csv(file = here::here("Data/worldwidecases.csv"))

options(nsmall = 2) # setting decimal places to 2
```

```
sgp_usa <- covid %>%
  mutate(date = dmy(dateRep),
         yday = yday(date)) %>%
  rename(country = countriesAndTerritories) %>%
  filter(countryterritoryCode %in% c("SGP", "USA"),
         month %in% c(3:5))
```

```
sgp_usa <- sgp_usa %>%
  group_by(country, yday) %>%
  mutate(cases_per_mil = (cases * (1000000 / popData2018)),
         deaths_per_mil = (deaths * (1000000 / popData2018)))
```

```
sgp_usa %>%
  ggplot() +
  geom_histogram(
    stat = "identity",
    width = 0.3,
    position = "dodge",
    aes(x = date, y = cases_per_mil, colour = country),
    fill = "white"
  ) +
  scale_color_brewer(palette = "Dark2") +
  geom_line(aes(
    x = date,
    y = deaths_per_mil,
    colour = country,
    group = country
  )) +
  theme(legend.position = "bottom")
```

```
## Warning: Ignoring unknown parameters: binwidth, bins, pad
```

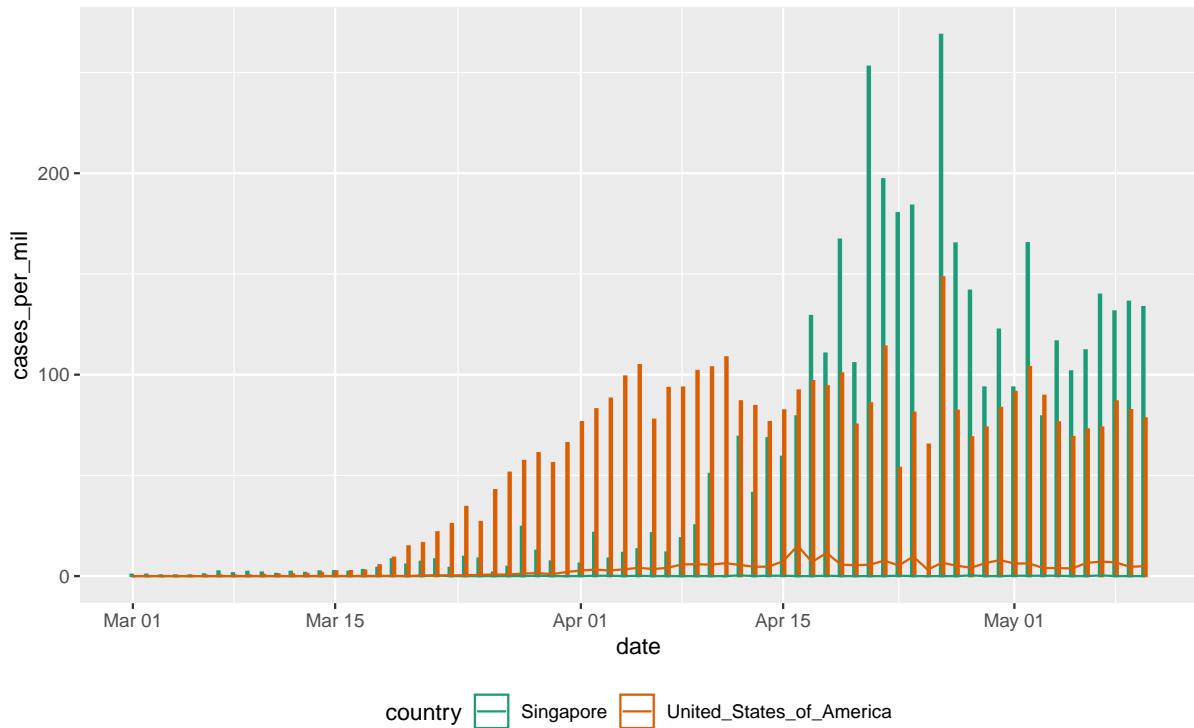


Figure 1: Total Deaths and Cases in SGP and USA from 01/03/2020 to 10/05/20

```
sgp_usa_week <- sgp_usa %>%
  mutate(week = week(date) - 8,
        deaths_prop = deaths_per_mil/cases_per_mil*100) %>%
  select(date, week, country, cases_per_mil, deaths_per_mil, deaths_prop, yday) %>%
  arrange(date)
```

```
summary_sgp_usa_week <- sgp_usa_week %>%
  group_by(week, country) %>%
  summarise(cases_per_week = sum(cases_per_mil),
            deaths_per_week = sum(deaths_per_mil),
            deaths_prop = mean(deaths_prop)) # % of deaths per week

kable(summary_sgp_usa_week, caption = "Total Cases and Deaths, and proportion of Deaths per week")
```

Table 1: Total Cases and Deaths, and proportion of Deaths per week

week	country	cases_per_week	deaths_per_week	deaths_prop
1	Singapore	1.7734660	0.0000000	0.0000000
1	United_States_of_America	0.1130919	0.0183392	22.3015873
2	Singapore	9.2220230	0.0000000	0.0000000
2	United_States_of_America	1.9898068	0.0611308	4.5340728
3	Singapore	14.7197675	0.0000000	0.0000000
3	United_States_of_America	11.9418976	0.1803358	1.4575217
4	Singapore	47.1741948	0.3546932	0.6079027
4	United_States_of_America	127.7052532	1.5435522	1.2122511
5	Singapore	59.4111100	0.1773466	NaN
5	United_States_of_America	361.2156582	7.8858705	2.1517817
6	Singapore	94.1710430	0.5320398	0.6000851
6	United_States_of_America	622.2379701	23.8990779	3.8497613
7	Singapore	273.6457991	0.5320398	NaN
7	United_States_of_America	655.3158344	38.6957829	5.9188037
8	Singapore	903.7582581	0.3546932	0.0657021
8	United_States_of_America	627.0734146	57.7380205	9.1763966
9	Singapore	1136.6143400	0.5320398	NaN
9	United_States_of_America	613.4443075	41.8929226	7.1853427
10	Singapore	772.3444298	0.7093864	0.0960872
10	United_States_of_America	587.4148220	38.7844225	6.6317524
11	Singapore	652.9901700	0.3546932	0.0507614
11	United_States_of_America	394.0092644	30.1374739	7.7081463

1 Analysis

Based on Figure 1

Based on Table 1

Country XX2 and YY2

Country XX3 and YY3