



# Corona Virus Report

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**Reports XXXX**

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Report for  
Australian Government COVID19

**19 May 2020**

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## 1 Research questions:

- Visual summary of corona virus contagion and dead rates in the following countries
  1. Italia
  2. Germany
  3. Greece
  4. Switzerland
  5. Sweden
  6. France
- Visual summary of corona virus cases and deaths rates in the following countries
  1. Italia
  2. Germany

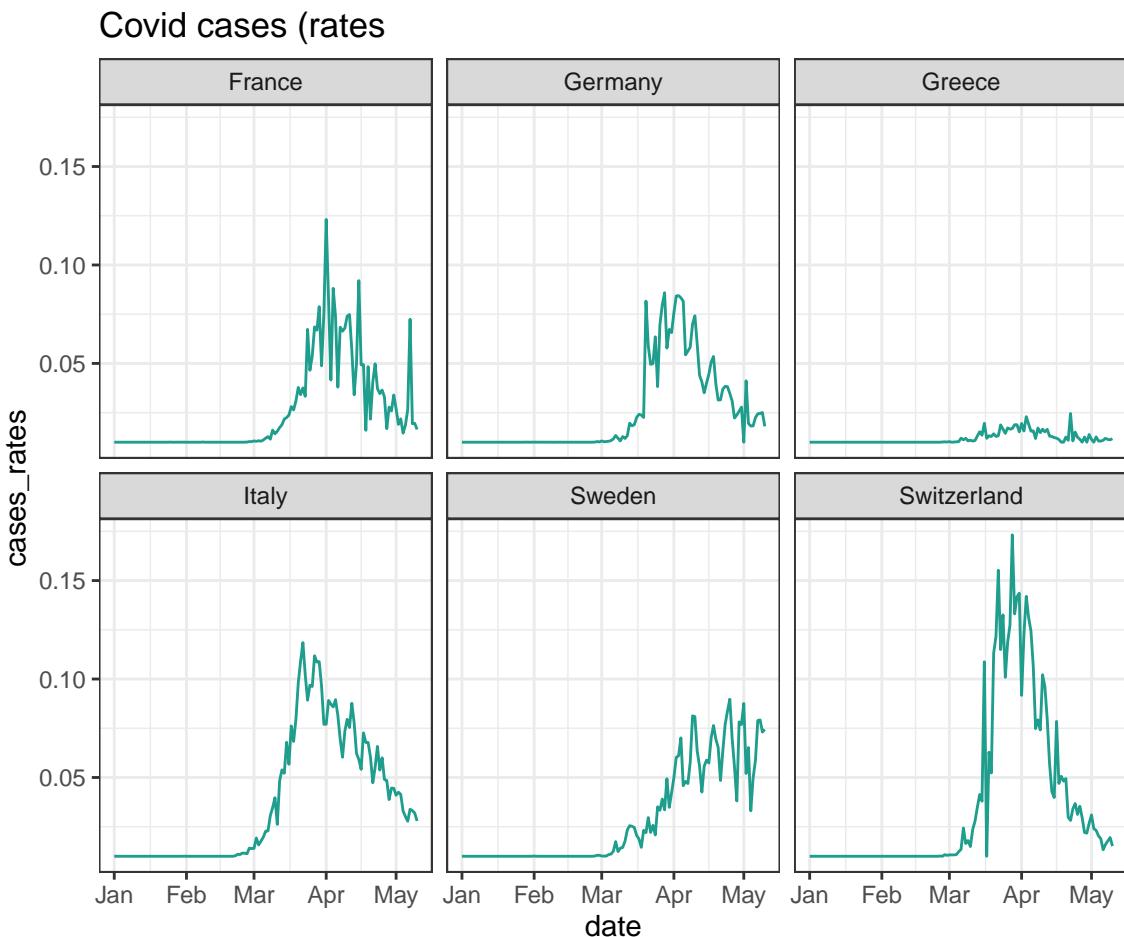
## 2 Data set introduction

"The dataset contains the latest available public data on COVID-19 including a daily situation update, the epidemiological curve and the global geographical distribution (EU/EEA and the UK, worldwide).

On 12 February 2020, the novel coronavirus was named severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) while the disease associated with it is now referred to as COVID-19. Since the beginning of the coronavirus pandemic, ECDC's Epidemic Intelligence team has been collecting on daily basis the number of COVID-19 cases and deaths, based on reports from health authorities worldwide. To insure the accuracy and reliability of the data, this process is being constantly refined. This helps to monitor and interpret the dynamics of the COVID-19 pandemic not only in the European Union (EU), the European Economic Area (EEA), but also worldwide. Every day between 6.00 and 10.00 CET, a team of epidemiologists screens up to 500 relevant sources to collect the latest figures. The data screening is followed by ECDC's standard epidemic intelligence process for which every single data entry is validated and documented in an ECDC database. An extract of this database, complete with up-to-date figures and data visualisations, is then shared on the ECDC website, ensuring a maximum level of transparency." More information available [here](#)

## 3 Exploratory data analysis

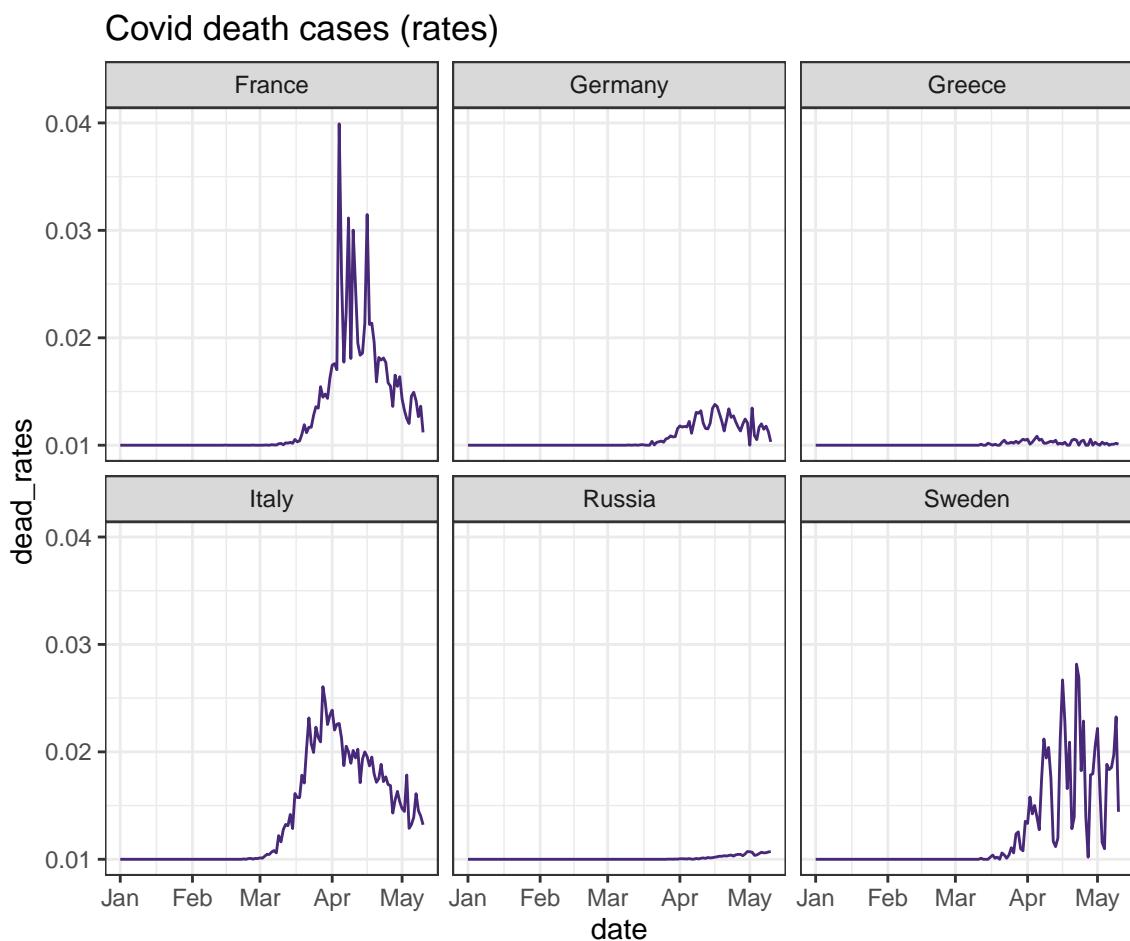
### 3.1 Overall



**Figure 1:** Rates of covid cases

In figure 1 we observe the corona virus rates of a number of european countries ...

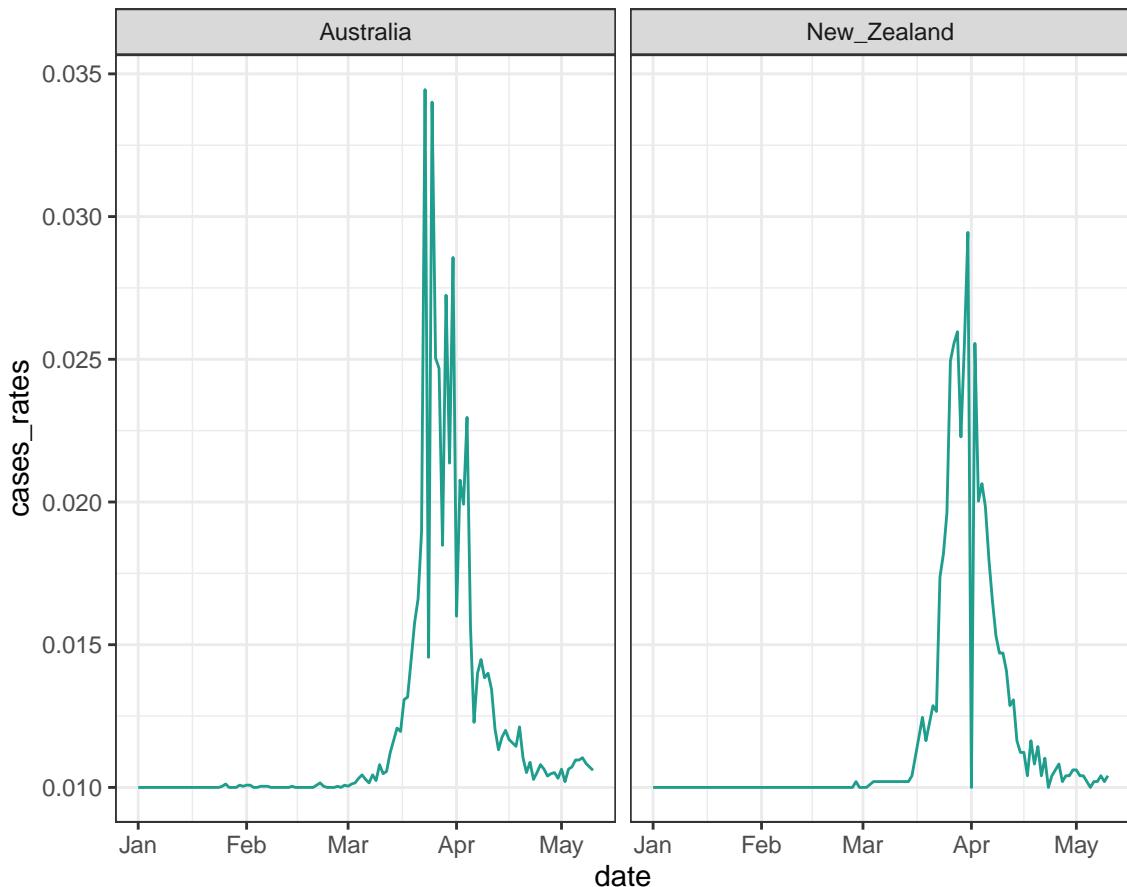
Figure 2 wdisplay the death reates of corona virus rates in Italy, Germany ...



**Figure 2:** Death reates for COVID19

### 3.2 Oceania

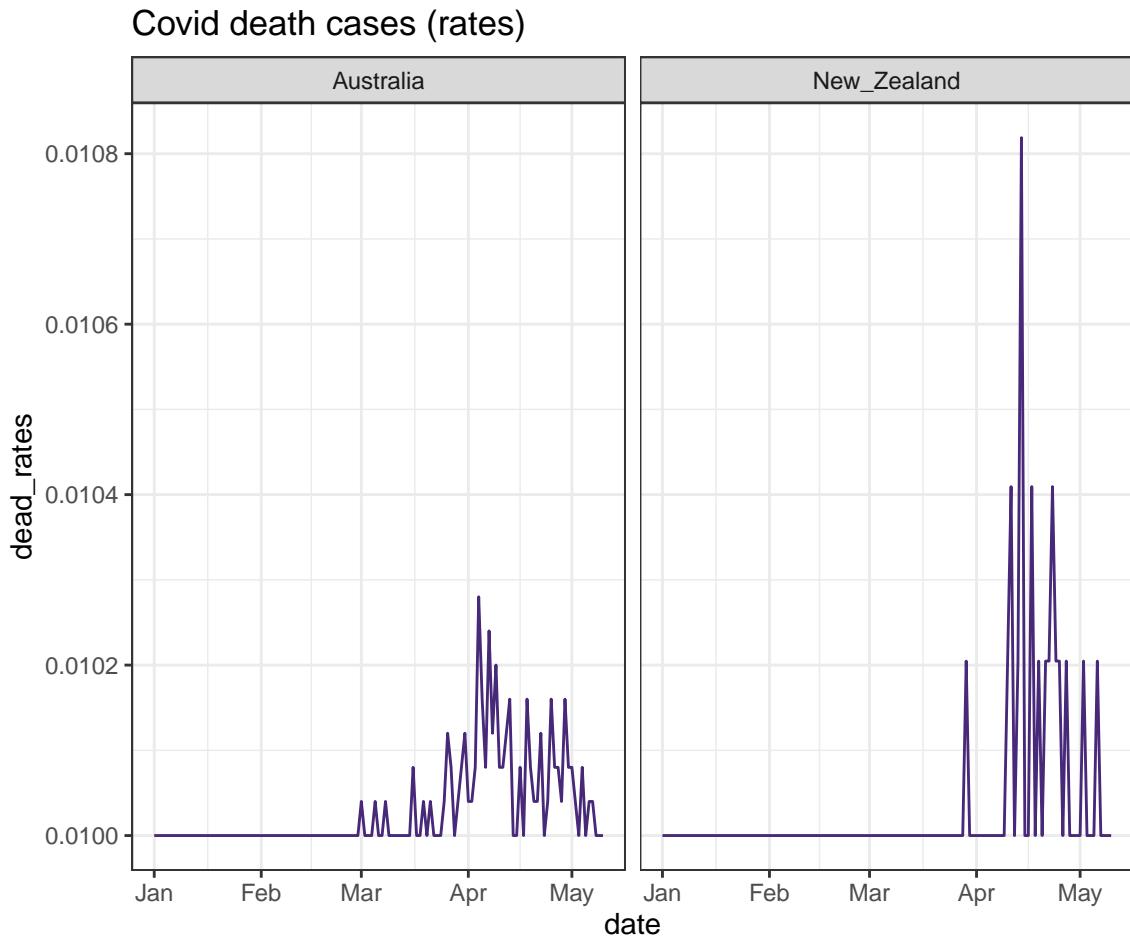
Covid cases (rates)



**Figure 3:** COVID cases in Australia and New Zealand

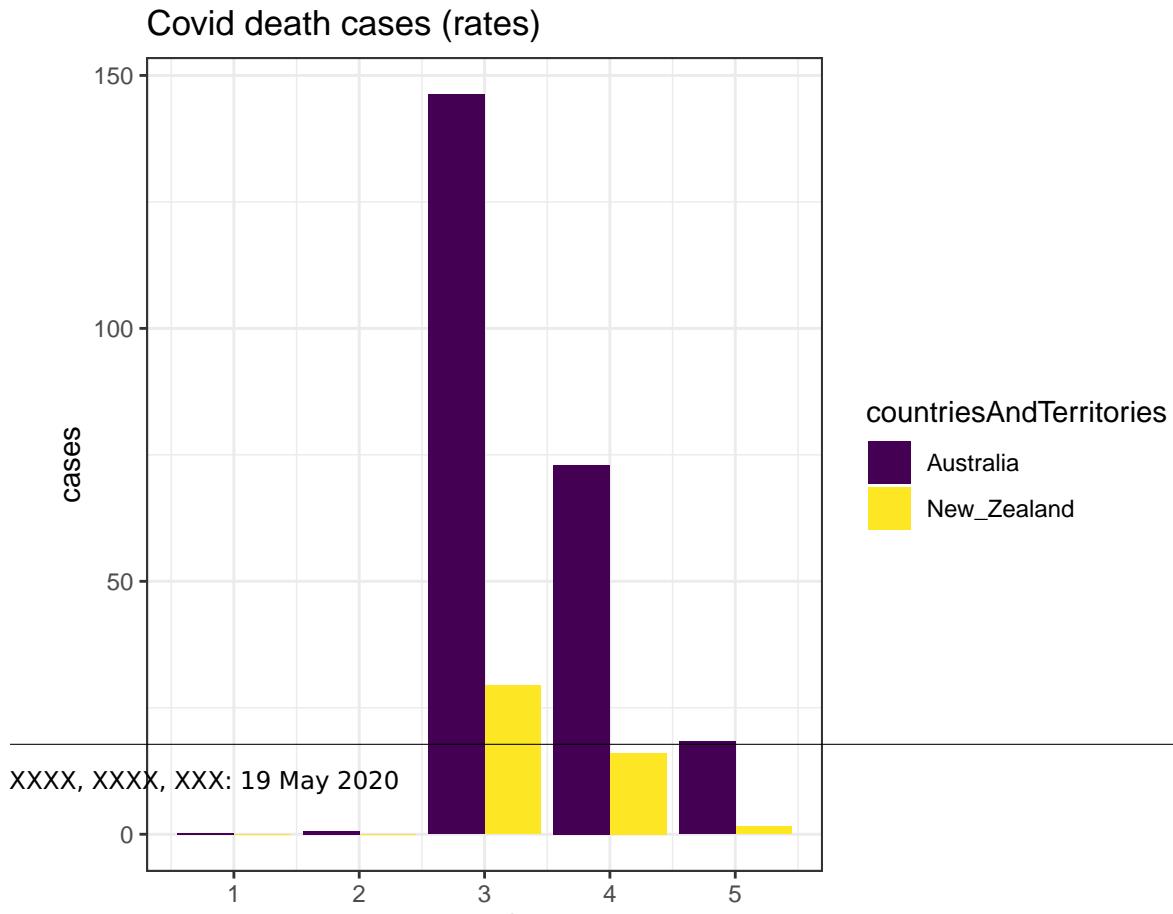
The rates of corona virus in Australia and New Zealand over time are displayed in [3](#)

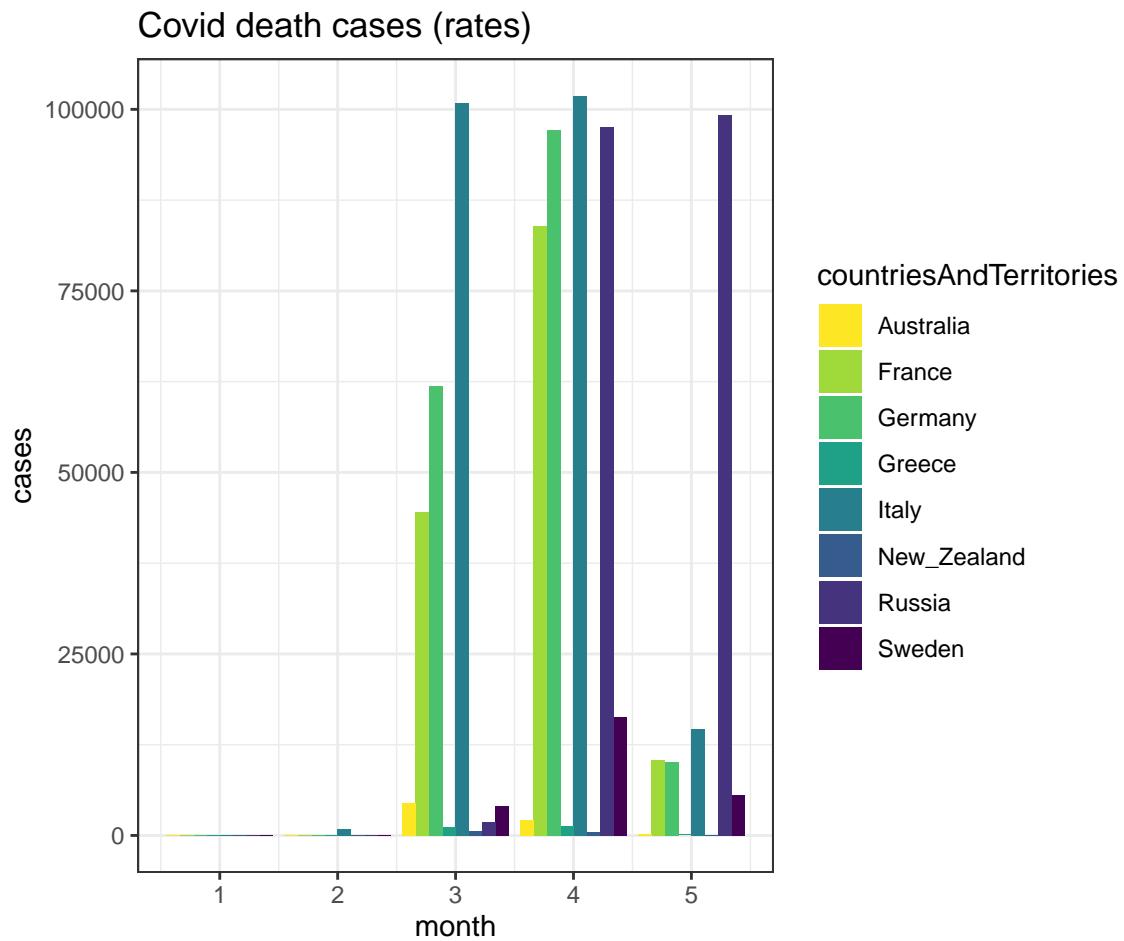
The death rates of corona virus in Australia and New Zealand over time are displayed in [4](#)



**Figure 4:** Death rates of COVID in Oceania

## 4 Comparisons





**Figure 5:** *Covid cases*

**Table 1:** Covid cases and deaths per month

countriesAndTerritories	month	year	cases	deaths
Australia	1	2020	7	0
Australia	2	2020	18	0
Australia	3	2020	4532	19
Australia	4	2020	2189	71
Australia	5	2020	183	7
France	1	2020	6	0
France	2	2020	51	2
France	3	2020	44493	3022
France	4	2020	83892	21063
France	5	2020	10412	2223
Germany	1	2020	5	0
Germany	2	2020	52	0
Germany	3	2020	61856	583
Germany	4	2020	97206	5705
Germany	5	2020	10099	1107
Greece	1	2020	0	0
Greece	2	2020	4	0
Greece	3	2020	1208	43
Greece	4	2020	1364	96
Greece	5	2020	134	12
Italy	1	2020	3	0
Italy	2	2020	885	21
Italy	3	2020	100851	11570
Italy	4	2020	101852	16091
Italy	5	2020	14677	2713
New_Zealand	1	2020	0	0
New_Zealand	2	2020	1	0
New_Zealand	3	2020	646	1
New_Zealand	4	2020	482	18
New_Zealand	5	2020	15	2
Russia	1	2020	0	0
Russia	2	2020	2	0
Russia	3	2020	1834	10
Russia	4	2020	97563	962
Russia	5	2020	99277	855
Sweden	1	2020	0	0
Sweden	2	2020	12	0
Sweden	3	2020	4016	146
Sweden	4	2020	16274	2316
Sweden	5	2020	5619	758

In Table 1.

## 5 Citation examples

Box and Cox (1964) and this is another article about COVID Bai et al. (2020) and I can also cite R packages as follows Wickham (2016)

## References

- Bai, Y, L Yao, T Wei, F Tian, DY Jin, L Chen, and M Wang (2020). Presumed asymptomatic carrier transmission of COVID-19. *Jama* **323**(14), 1406–1407.
- Box, GEP and DR Cox (1964). An analysis of transformations. *Journal of the Royal Statistical Society. Series B* **26**(2), 211–252.
- Wickham, H (2016). *ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. <https://ggplot2.tidyverse.org>.