



# COVID 19 Report

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Report for  
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**29 May 2021**

## 1 Introduction

### Total cases in Australia

## 2 Total COVID 19 cases from each state in the last 28 days

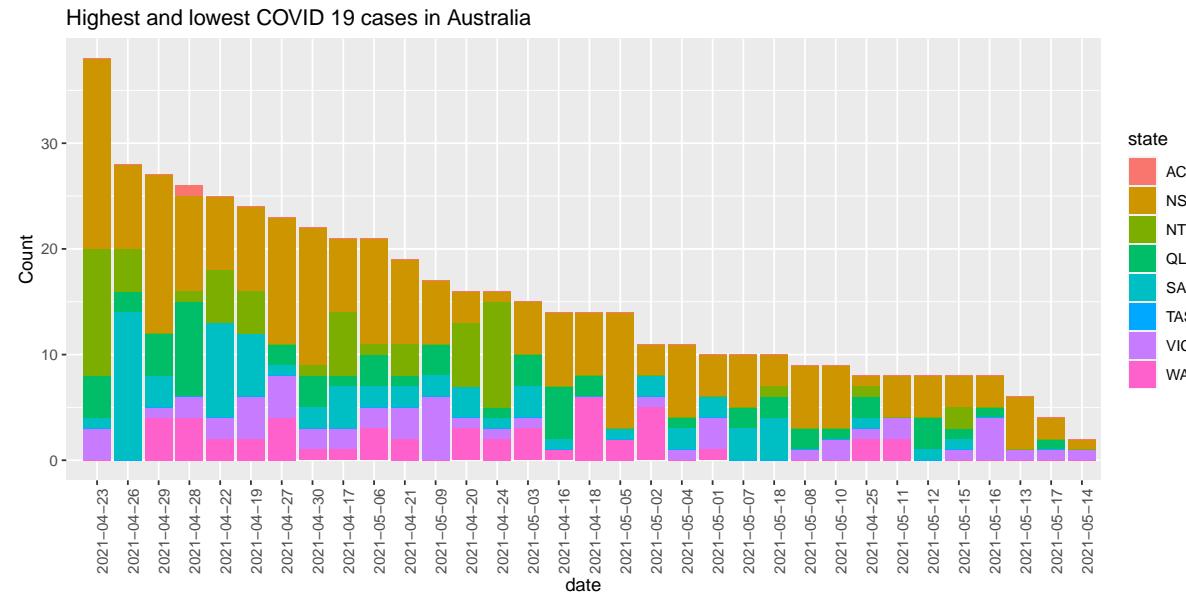
**Table 1:** *Total cases in 28 days*

state	total
NSW	211
SA	71
QLD	59
NT	57
VIC	53
WA	50
ACT	1
TAS	0

### 2.1 Analysis

table 1 shows the total number of COVID 19 cases from all the states in Australia in the last 28 days. It clearly shows that in the last 28 days New South Wales (NSW) has added the most number of cases with total of 211 cases. Compared to other states they only at 50's cases with Australian Capital Territory (ACT) and Tasmania (TAS) only added 1 and 0 cases. It reflects that NSW has been struggling. The data was downloaded as in 18 of May 2021, they really need to increase their attention in order to contain the virus outbreak.

### 3 Highest and lowest COVID 19 cases in Australia



**Figure 1:** Highest and lowest COVID 19 cases in Australia

#### 3.1 Analysis

Figure 1 showing the highest to lowest cases of COVID 19 the X axis acts recorded the date on when the case was recorded. At glance at the 23 of April 2021 the day where Australia adds the higest total cases with NSW is the highest contributor, and the lowest cases was recorded at 14 May 2021.

## 4 COVID 19 cases in Australia in the last 28 days

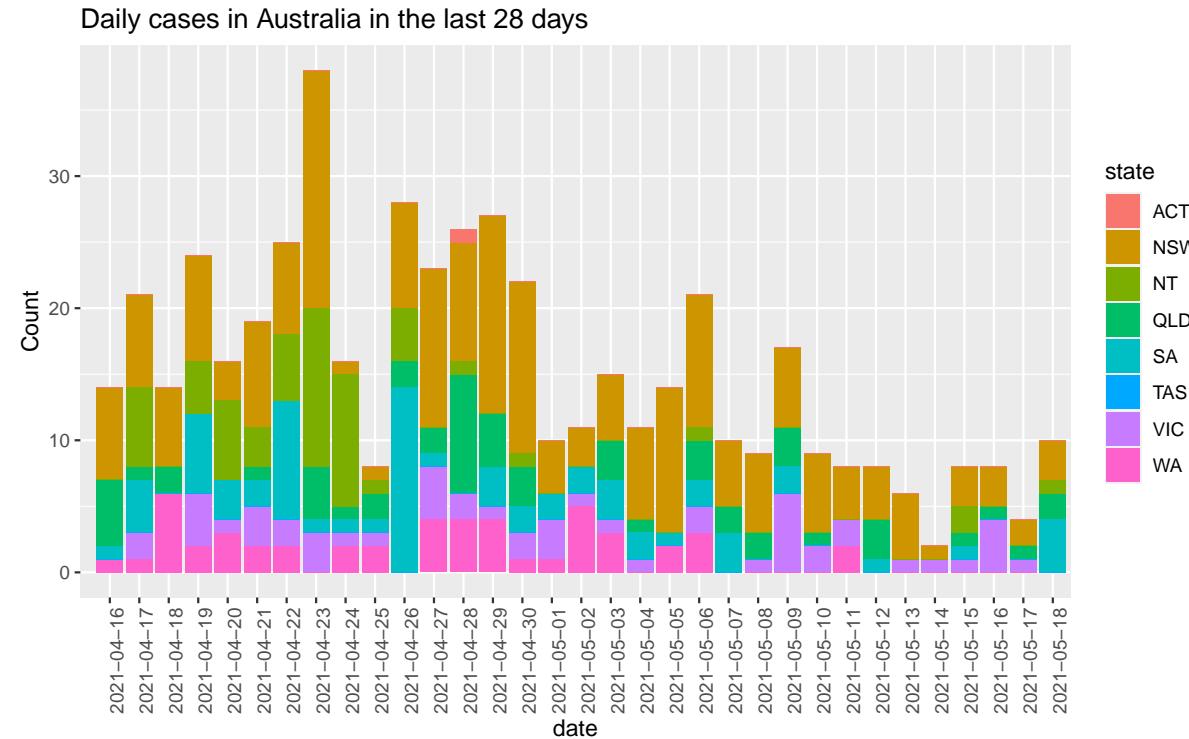


Figure 2: Daily cases in Australia in the last 28 days

### 4.1 Analysis

2 showing the COVID 19 cases trends from 16 of April to 18 of May 2021. During the first few weeks the cases has rises and reaches it's peak on the 22 April 2021. 2 days later it drops and suddenly there has been an increase again. But overall during the last 28 days Australia has shown a great way to contain the outbreak on the first week which showing the efficiency of the government rules and regulation.

### Recovery

#### Transmission sources of daily cases in Australia

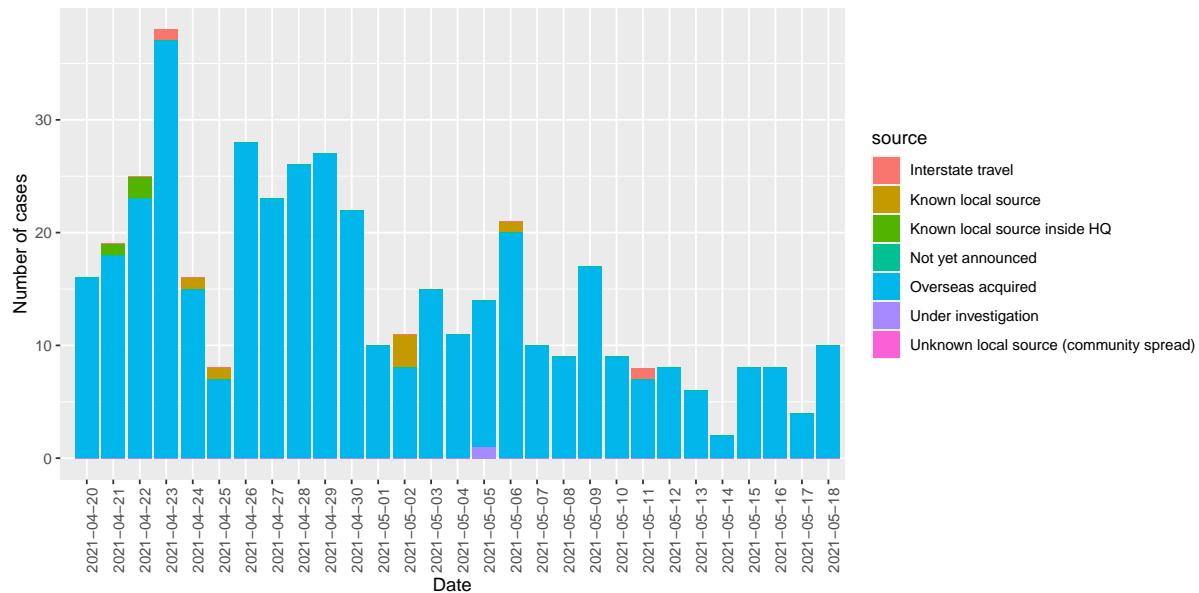
```
transmission <- read_csv("Data/National.csv")
```

```
transmission <- transmission %>%
  mutate(date = as.Date(date, '%d-%b'))
```

```

transmission_long <- transmission %>%
  mutate(date = as.Date(date, '%d-%b')) %>%
  pivot_longer(cols = -date,
               names_to = "source",
               values_to = "Count")
dates <- unique(sort(transmission_long$date))
transmission_long$date <- factor(transmission_long$date, ordered = T)

```



**Figure 3:** Transmission sources of daily cases 20 April 2021 - 18 May 2021

The figure 3 indicates that the most of transmissions were from overseas. Especially, there were more than 35 cases from overseas recorded and one case was due to the interstate travel in 23 April. Only One case is under investigation which has been recorded in 5 May.

Luckily, there are no more local community spread in Australia from 20 April 2021 to 18 May 2021.

## Vaccination in Australia