

# Vaccines in India

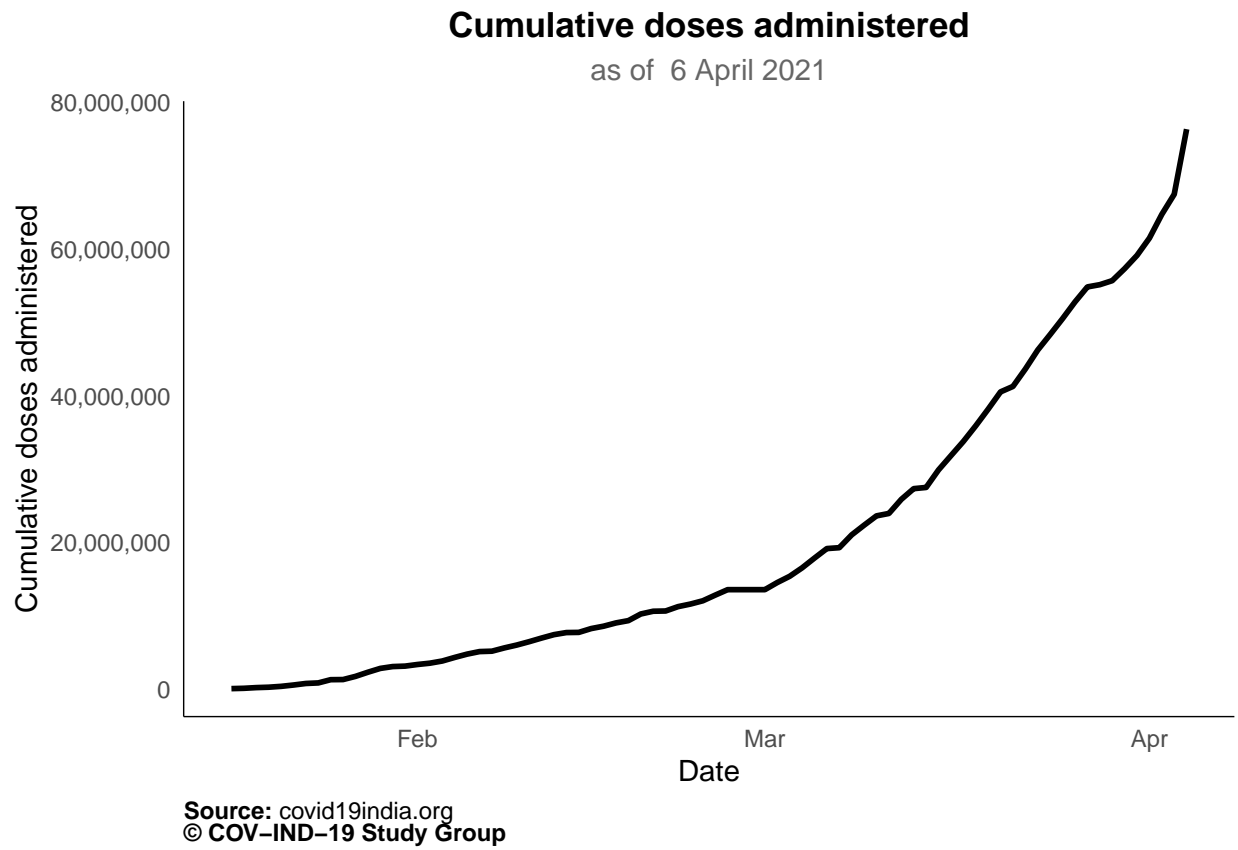
## Intro

As there is a resurgence of the COVID-19 pandemic in India, it is of interest to public health practitioners and policymakers to evaluate compliance towards receiving the second dose of the COVID-19 vaccine. In particular, while some protection against severe COVID-19 symptoms is conferred with the first of a two-dose vaccine, there are more protective one-dose vaccines available, which need to be considered if there is sufficient evidence that Indians are not receiving their second dose of a two-dose vaccine. In India, they are currently **only** administering two-dose COVID-19 vaccines to date ( 7 April 2021). The current recommendation is to administer the second dose six weeks after the initial dose, though it had previously been as few as four weeks and can be administered as many as eight weeks later.

Using vaccine data from covid19india.org (which itself draws on the co-WIN database), we explore the distribution of the administration of first and second doses of COVID-19 vaccines in India over time and describe the discrepancy in expected two-dose vaccinations.

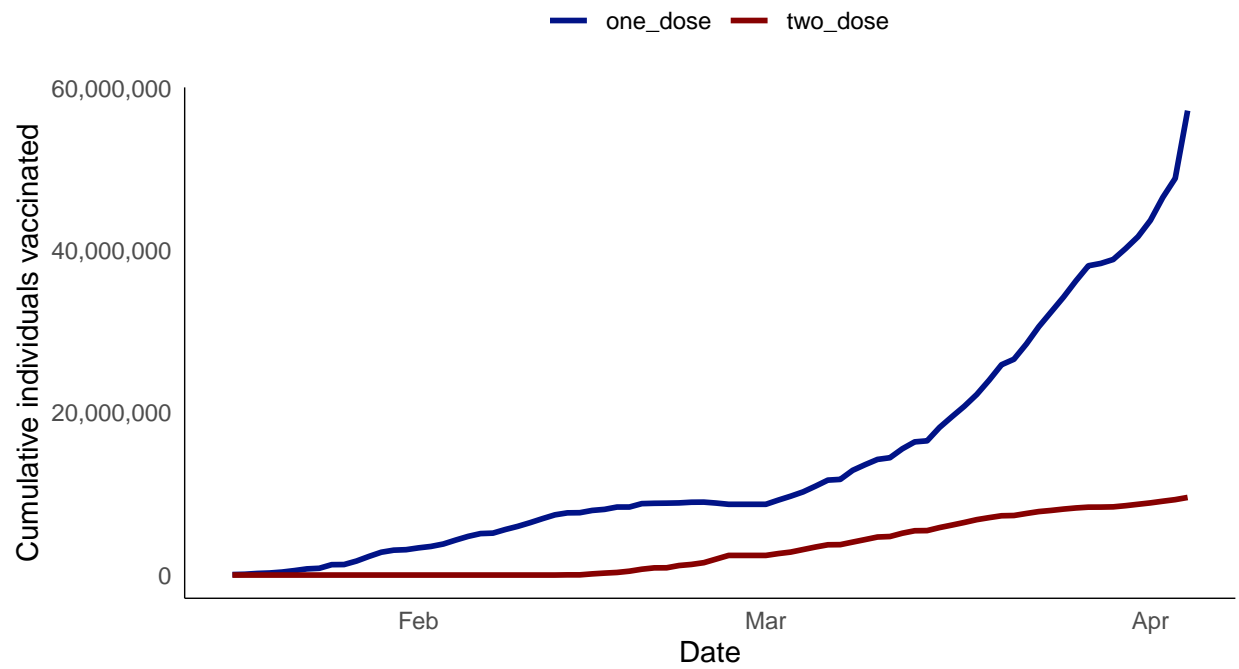
```
## # A tibble: 81 x 16
##   date      state first_dose_administ~ two_dose total_vax total_doses one_dose
##   <date>    <chr>      <dbl>    <dbl>    <dbl>    <dbl>    <dbl>
## 1 2021-01-16 India      48276      0    48276    48276    48276
## 2 2021-01-17 India      58604      0    58604    58604    58604
## 3 2021-01-18 India      99449      0    99449    99449    99449
## 4 2021-01-19 India     195525      0   195525   195525   195525
## 5 2021-01-20 India     251280      0   251280   251280   251280
## 6 2021-01-21 India     365965      0   365965   365965   365965
## 7 2021-01-22 India     549381      0   549381   549381   549381
## 8 2021-01-23 India     759008      0   759008   759008   759008
## 9 2021-01-24 India     835058      0   835058   835058   835058
## 10 2021-01-25 India    1277104      0  1277104  1277104  1277104
## # ... with 71 more rows, and 9 more variables: daily_one_dose <dbl>,
## #   daily_two_dose <dbl>, four_week <dbl>, six_week <dbl>, eight_week <dbl>,
## #   daily_min_week <dbl>, daily_max_week <dbl>, min_week <dbl>, max_week <dbl>
```

## Plots



## Cumulative individuals vaccinated by dose

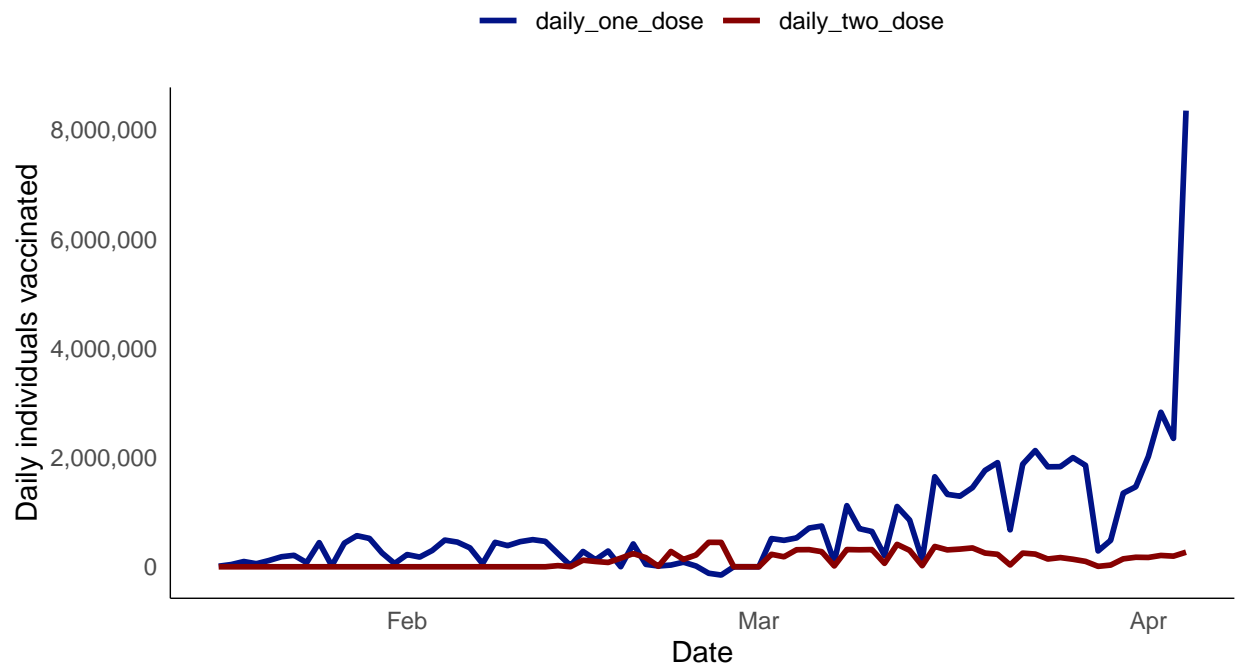
as of 6 April 2021



Source: covid19india.org  
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## Daily individuals vaccinated by dose

as of 6 April 2021

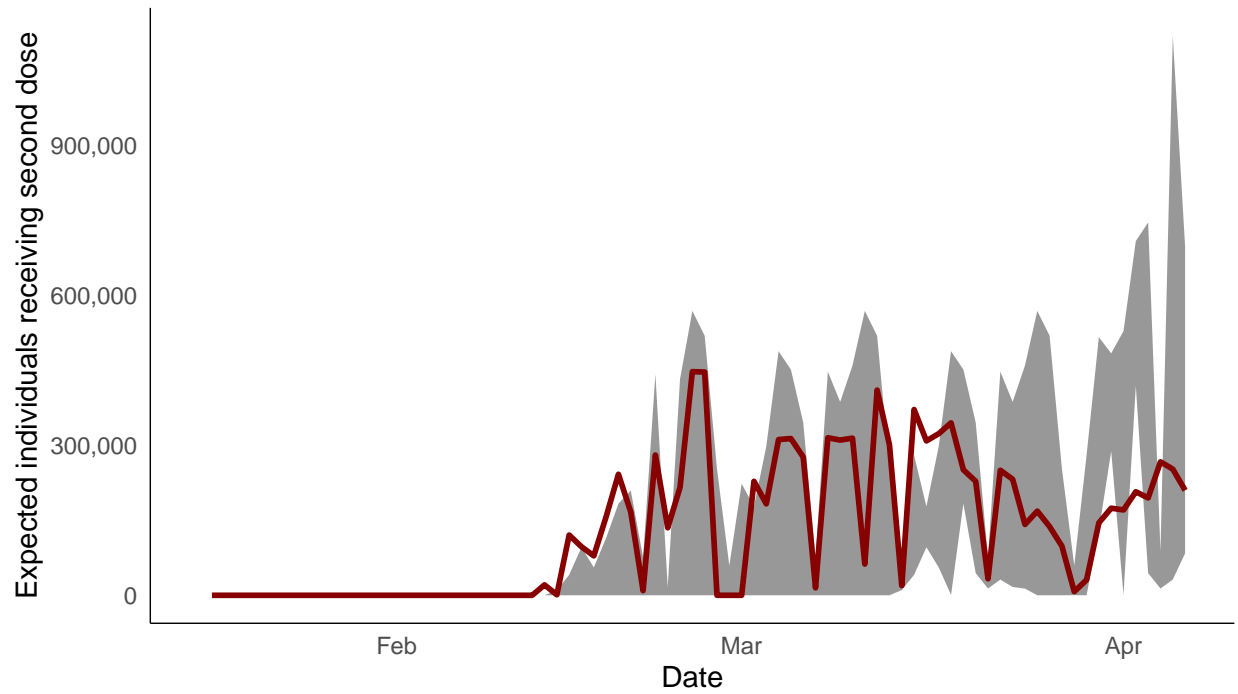


Source: covid19india.org  
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## Warning: Removed 1 row(s) containing missing values (geom\_path).

## Expected daily second dose schedule

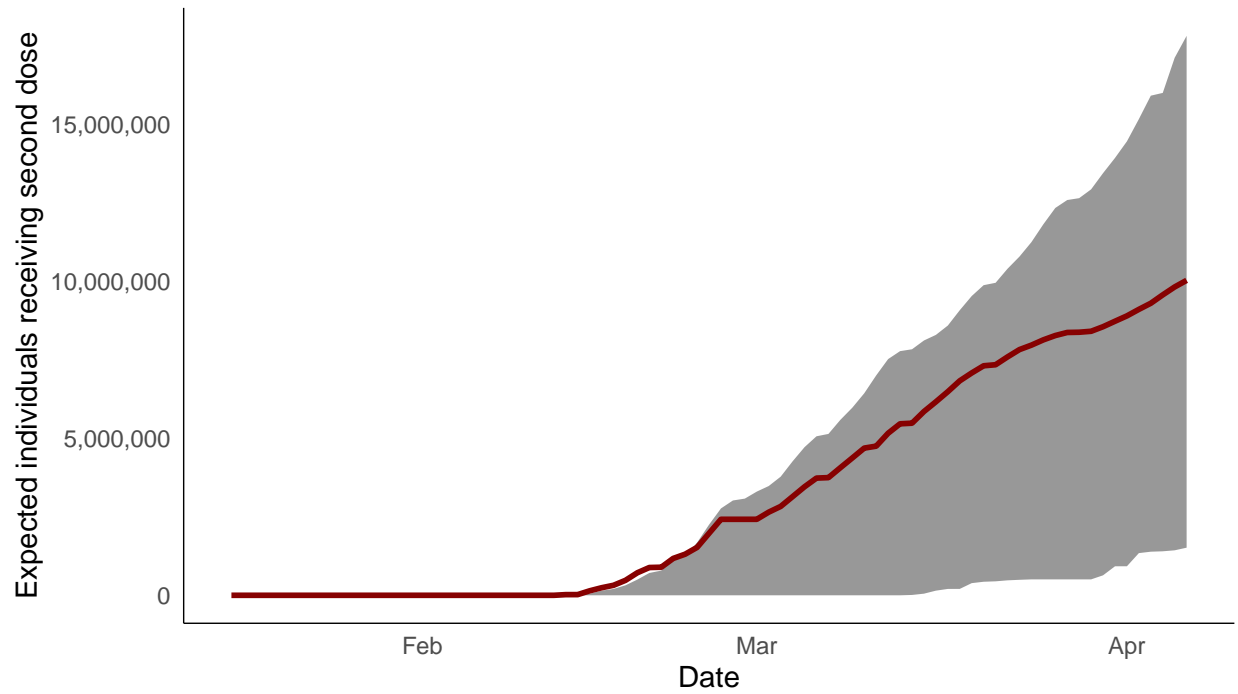
as of 6 April 2021



Source: covid19india.org  
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## Expected cumulative second dose schedule

as of 6 April 2021



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