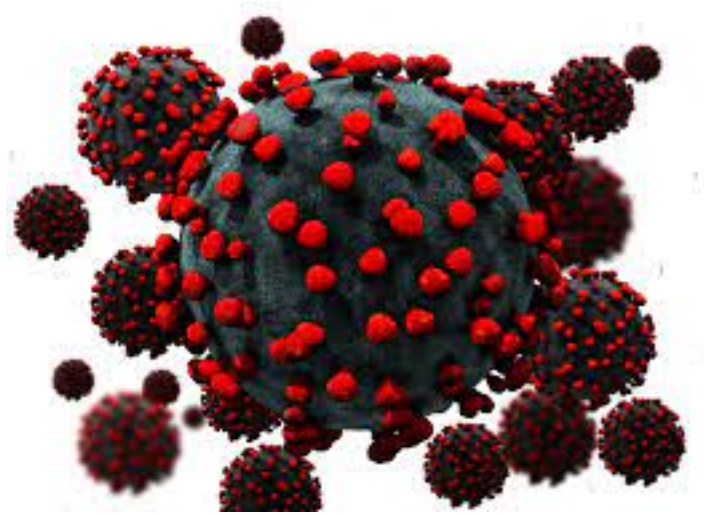


# Covid-19 Situation in Bangladesh

This Analysis is Prepared in R programming.

Md. Mahdi Hasan

2023-09-17 01:49:45



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today's (2023-09-17 01:50:24) Active, Death and recovered cases are 3298 , 29477 and 2013820. Percentage of the situations are 0.16% , 1.44% and 98.4%

## Covid 19 Yearly Situation in Bangladesh

Table 1: Average Situation in 2020

Daily new cases	Daily new deaths	New Recoverd	Daily_AffectedRate	Death rate	Recovery Rate
1721.27	25.36	1532.08	14.57	2.14	52.11

### Comment Table 1

**Comment:** From the above table we see that, in 2020 the Average Confirmed, Death, Recovery, Daily affected rate, Death Rate and Recovery rate are 1721.2718121, 25.3590604, 14.5734045, and 52.1060137

Table 2: Average Situation in 2021

Daily new cases	Daily new deaths	New Recoverd	Daily_AffectedRate	Death rate	Recovery Rate
2933.33	56.05	2982.67	10.25	1.63	92.07

Table 3: Average Situation in 2022

Daily new cases	Daily new deaths	New Recoverd	Daily_AffectedRate	Death rate	Recovery Rate
1233.86	3.74	1198.89	6.48	1.49	96.09

Table 4: Average Situation in 2023

Daily new cases	Daily new deaths	New Recoverd	Daily_AffectedRate	Death rate	Recovery Rate
32.8	0.14	100.48	2.33	1.44	98.24

### Comment Table 2

**Comment:** From the above table we see that, in 2021 the Average Confirmed, Death, Recovery, Daily affected rate, Death Rate and Recovery rate are 2933.3333333, 56.0519126, 10.2478943, and 92.0660986

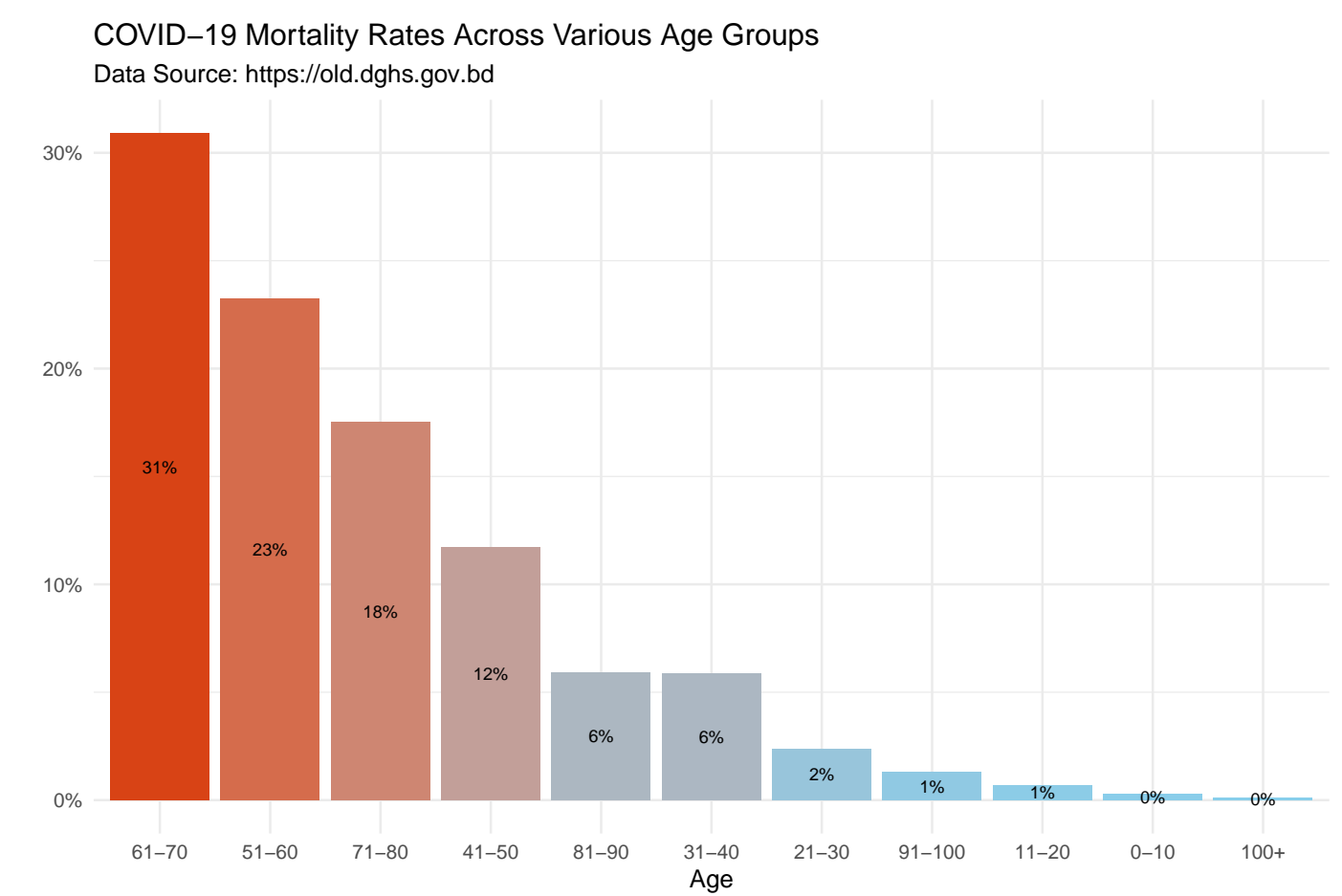
### Comment Table 3

**Comment:** From the above table we see that, in 2022 the Average Confirmed, Death, Recovery, Daily affected rate, Death Rate and Recovery rate are 1233.863388, 3.7377049, 6.4830143, and 96.0945436

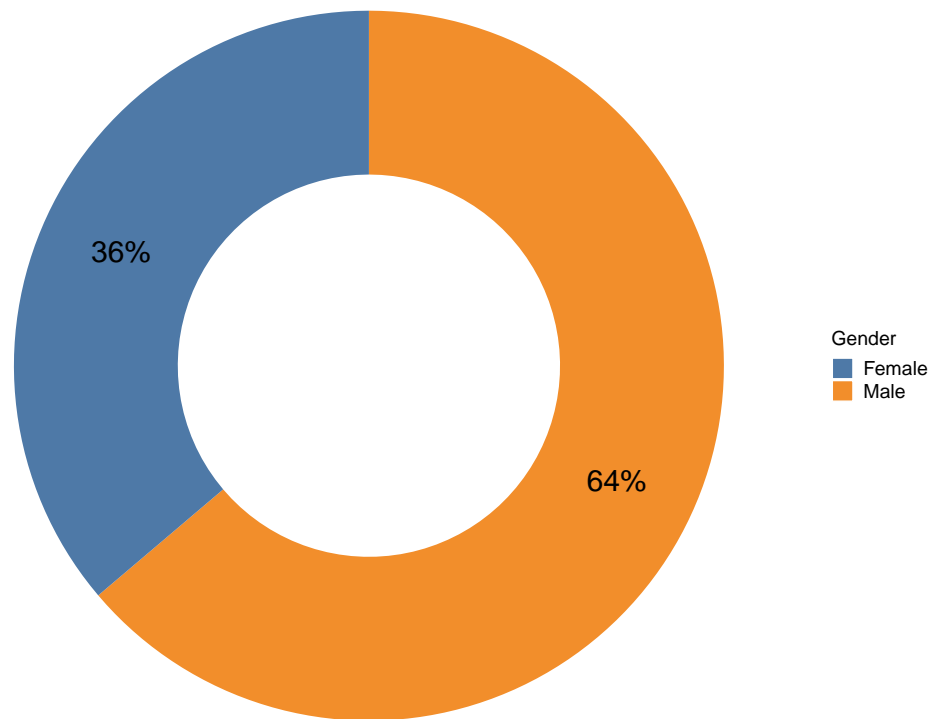
Comment Table 4

**Comment:** From the above table we see that, in 2023 the Average Confirmed, Death, Recovery, Daily affected rate, Death Rate and Recovery rate are 32.7984496, 0.1434109, 2.3299866, and 98.2375789

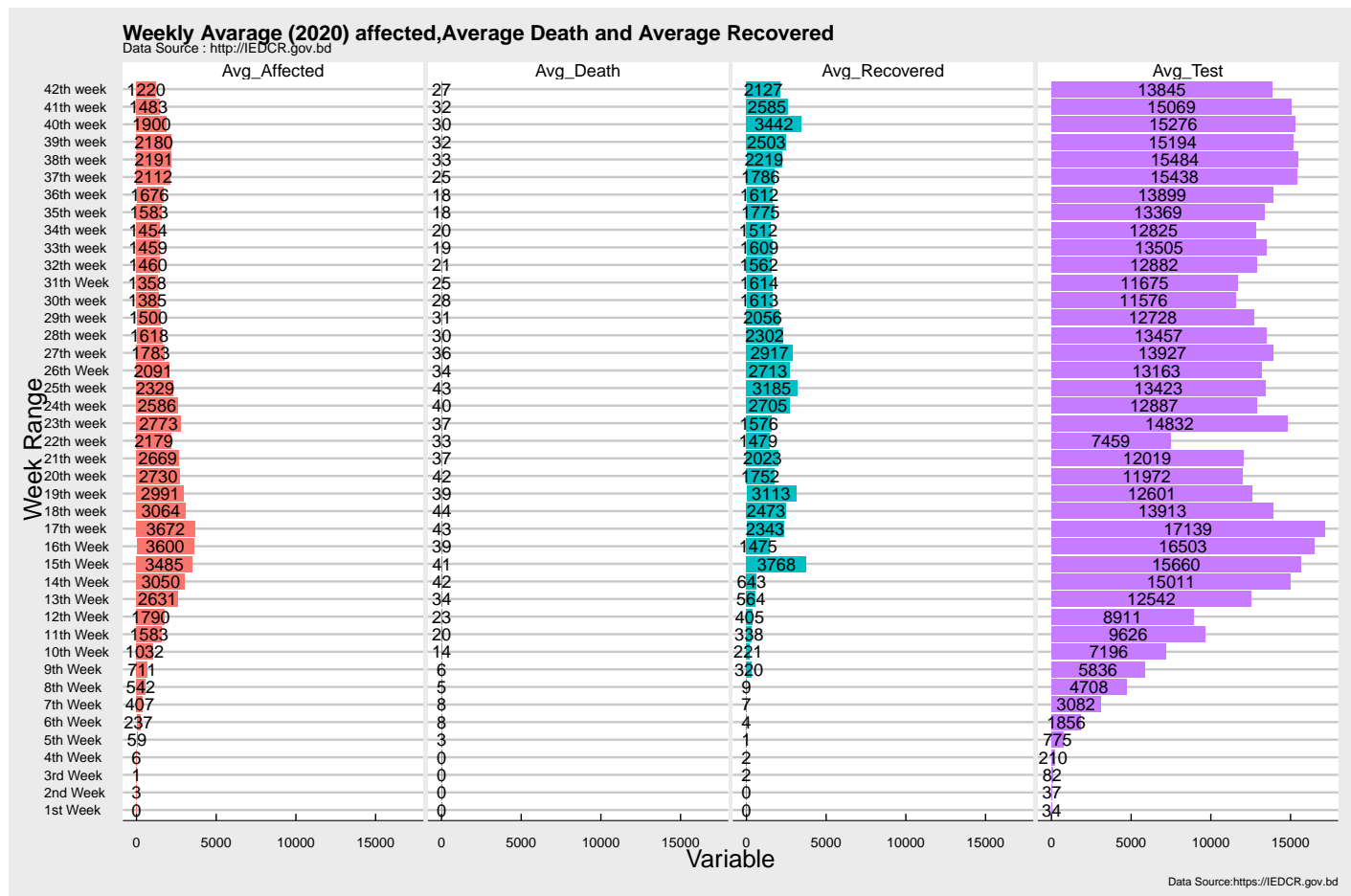
Age and Gender covid Death percentage



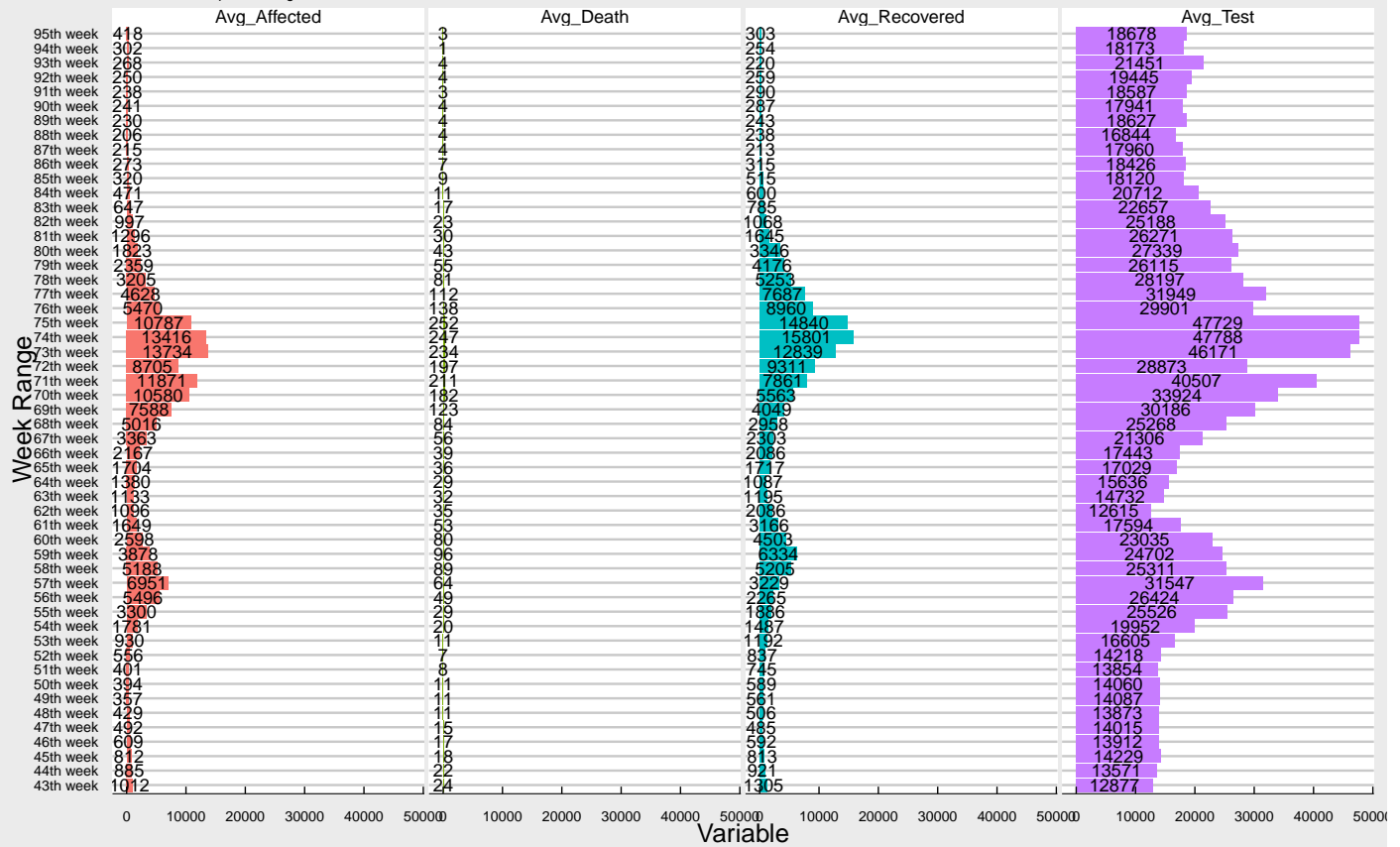
Gender



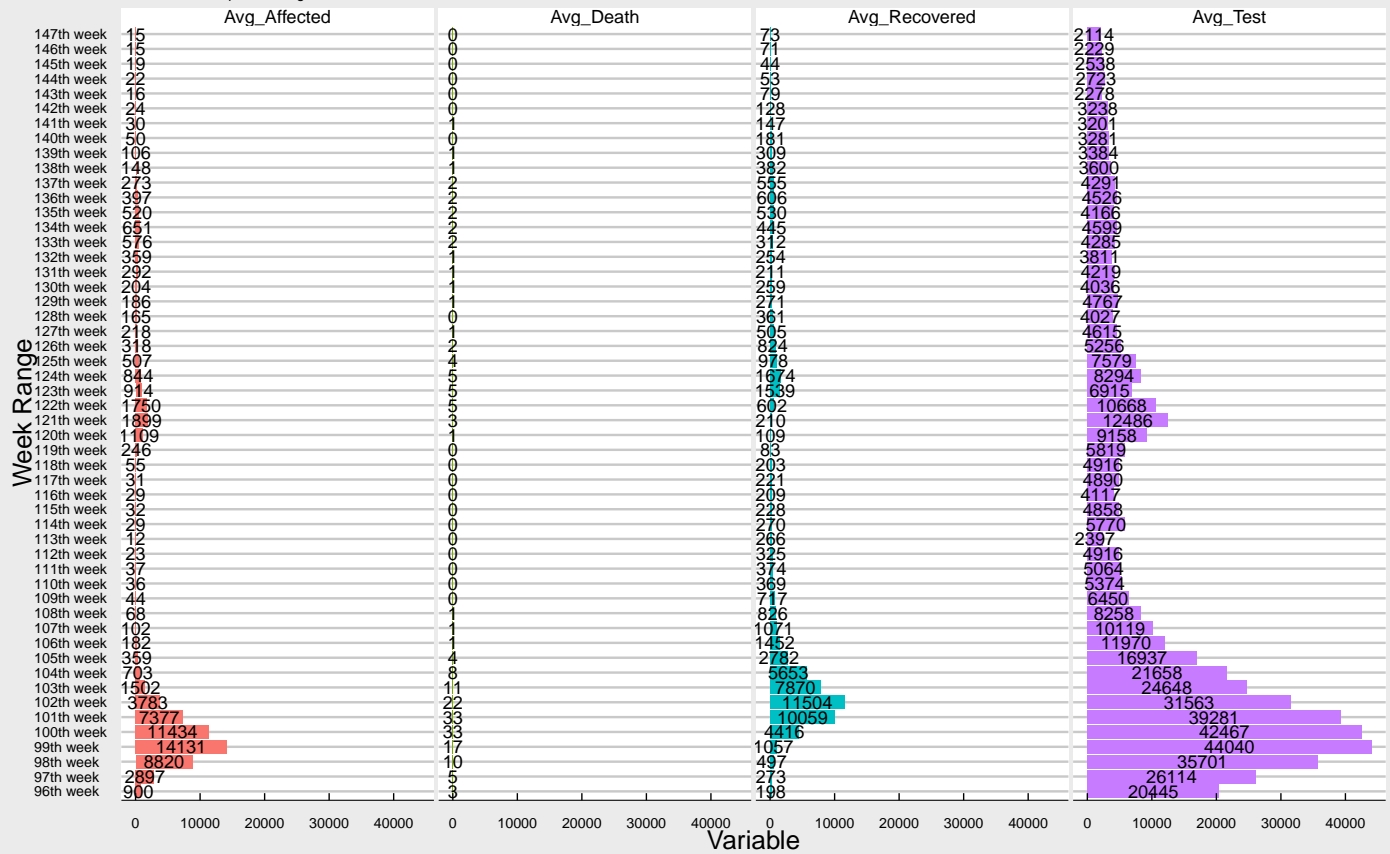
## Weekly Average Situation



## Weekly Avarage (2021) affected,Average Death and Average Recovered

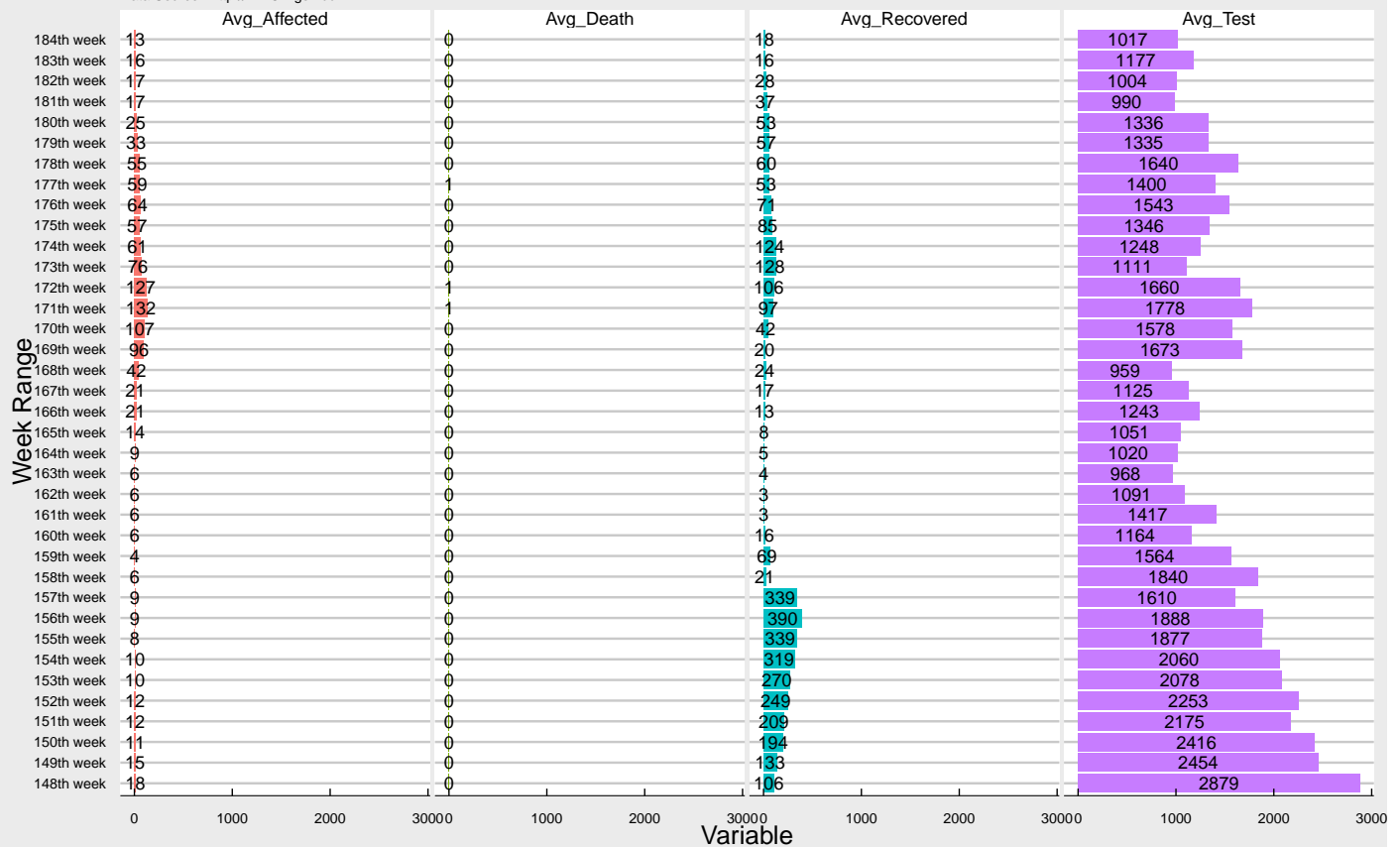
Data Source : <http://EDCR.gov.bd>

## Weekly Avarage (2022) affected,Average Death and Average Recovered

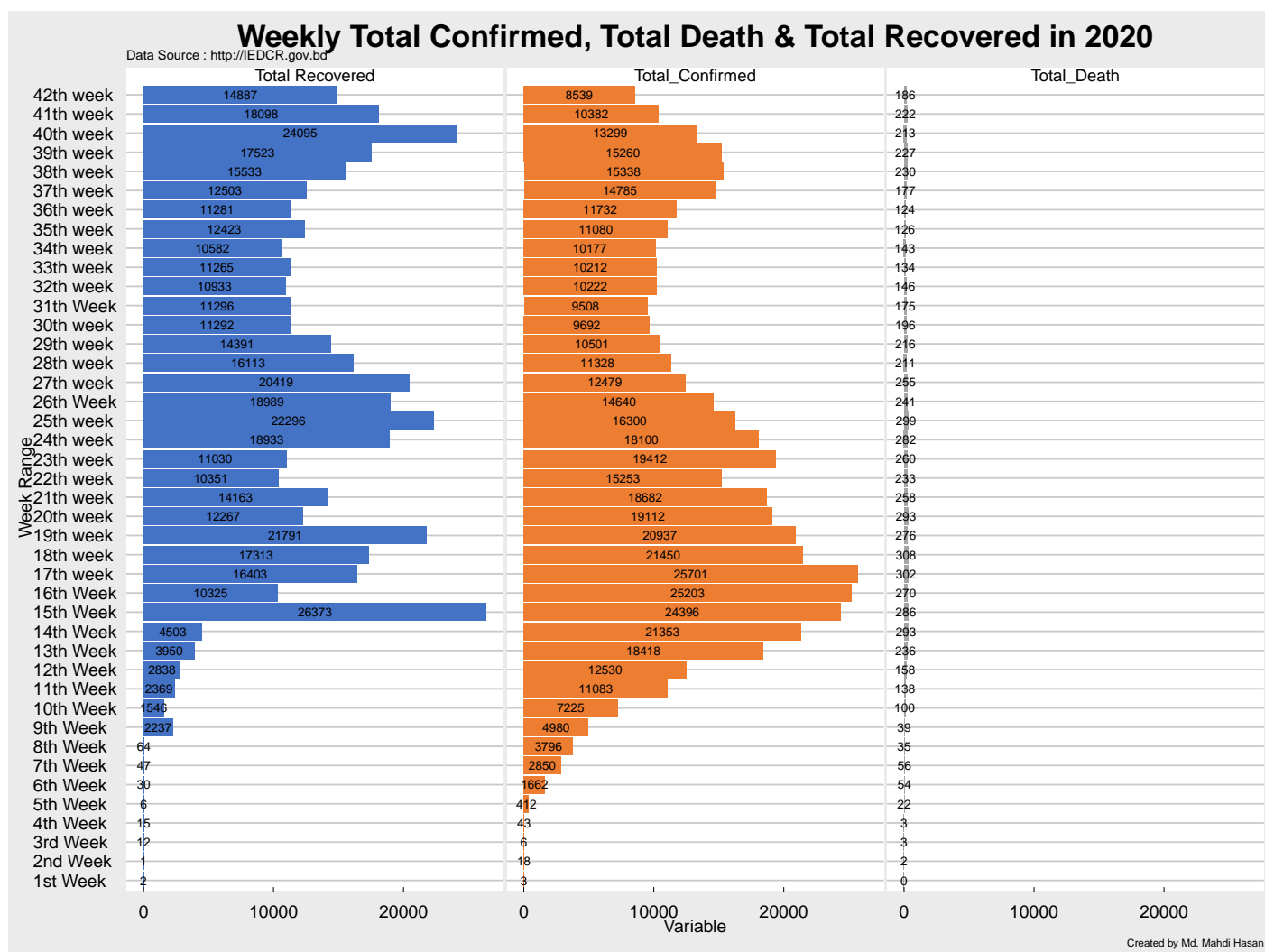
Data Source : <http://IEDCR.gov.bd>



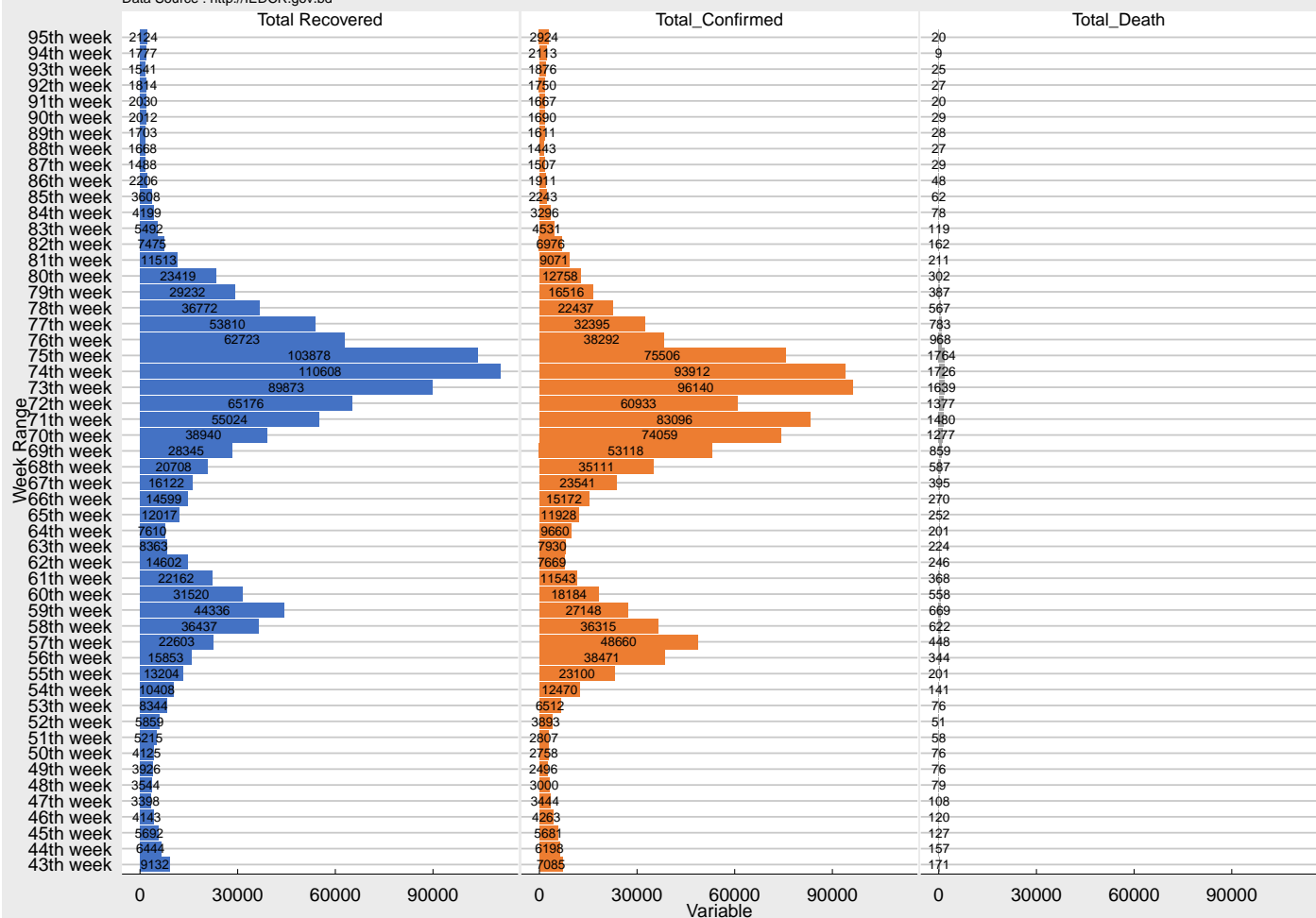
## Weekly Avarage (2023) affected,Average Death and Average Recovered

Data Source : <http://IEDCR.gov.bd>

## Weekly Total Situation

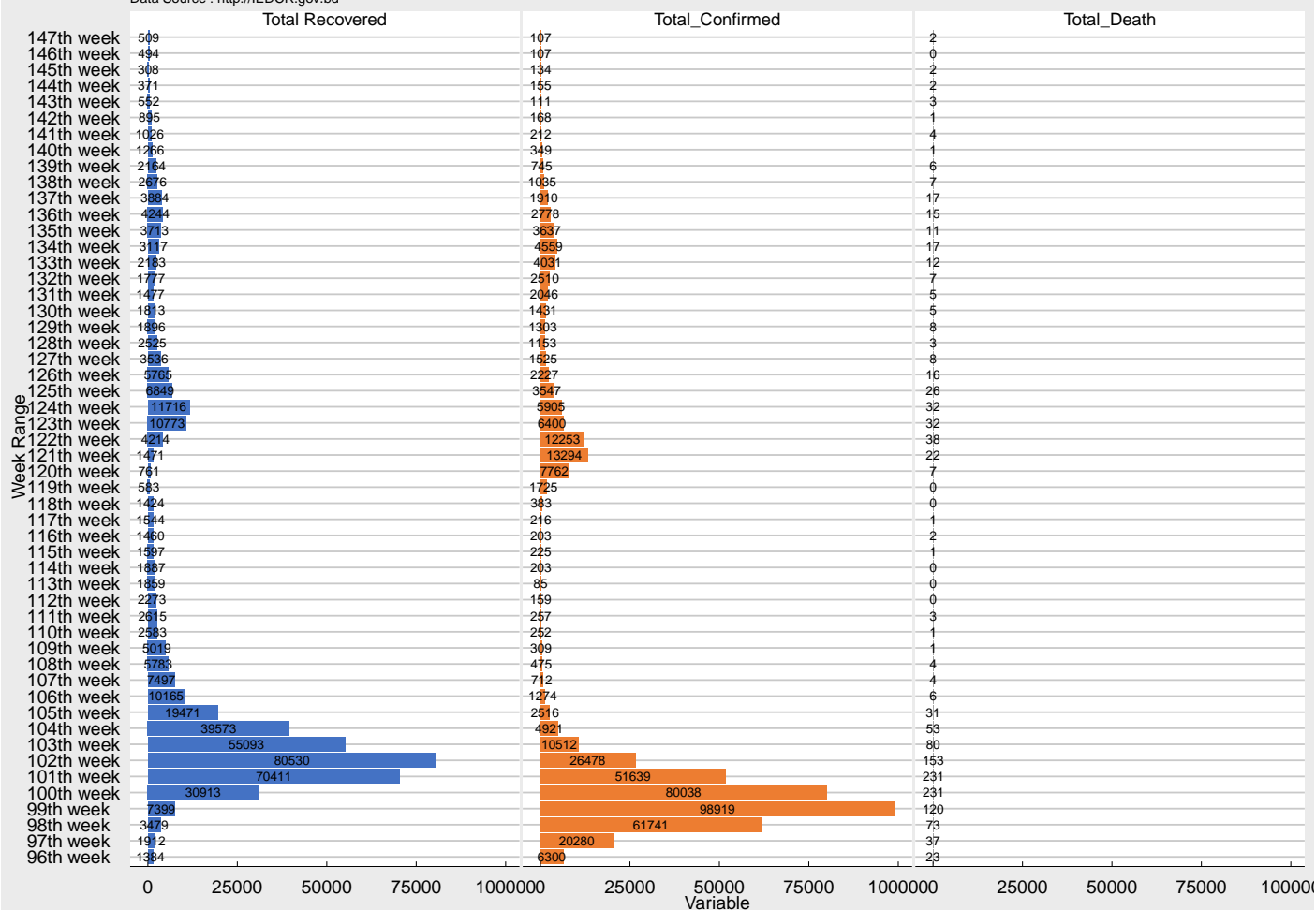


## Weekly Total Confirmed, Total Death & Total Recovered in 2021

Data Source : <http://IEDCR.gov.bd>

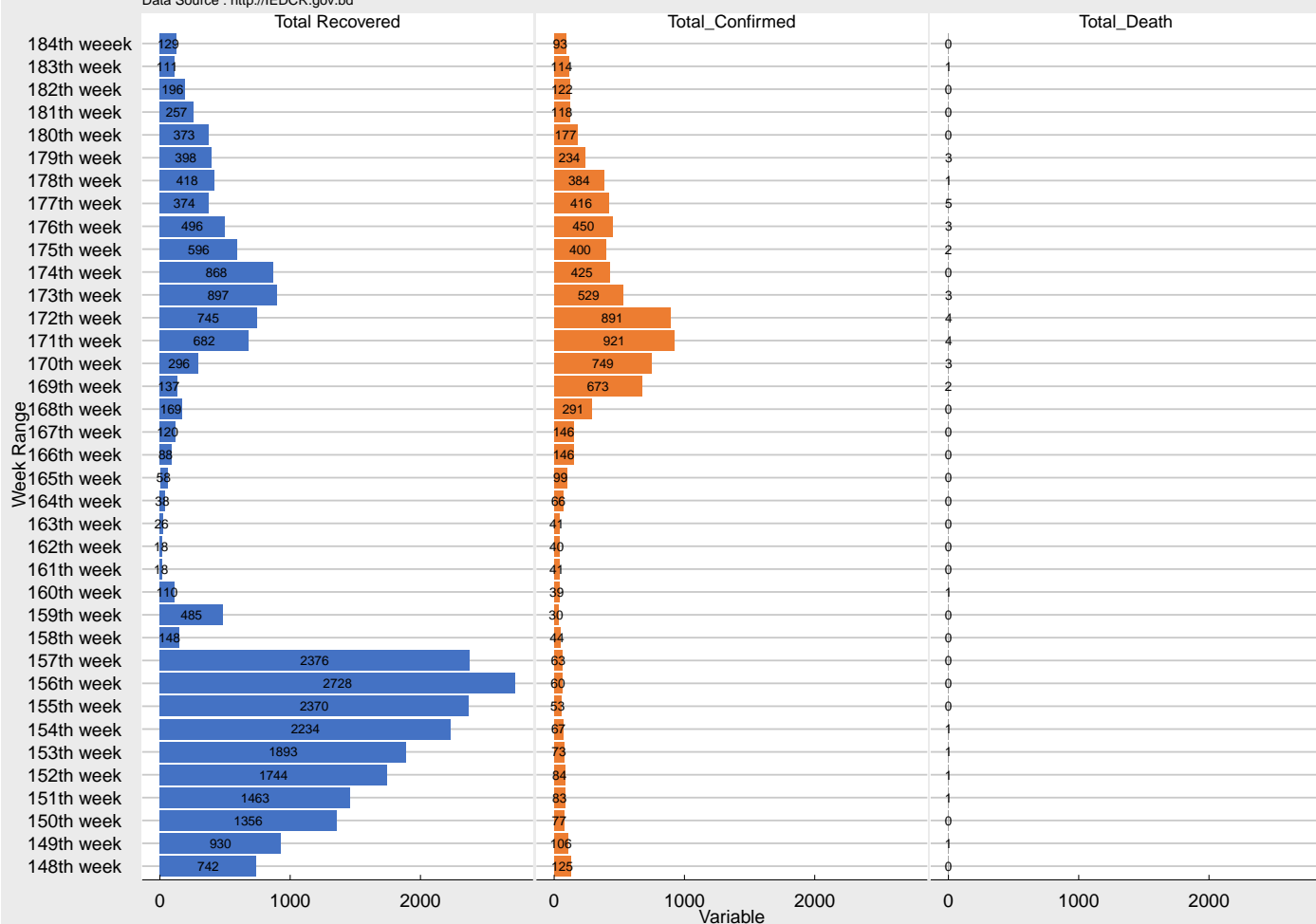
Created by Md. Mahdi Hasan

## Weekly Total Confirmed, Total Death & Total Recovered in 2022

Data Source : <http://IEDCR.gov.bd>

Created by Md. Mahdi Hasan

## Weekly Total Confirmed, Total Death & Total Recovered(2023)

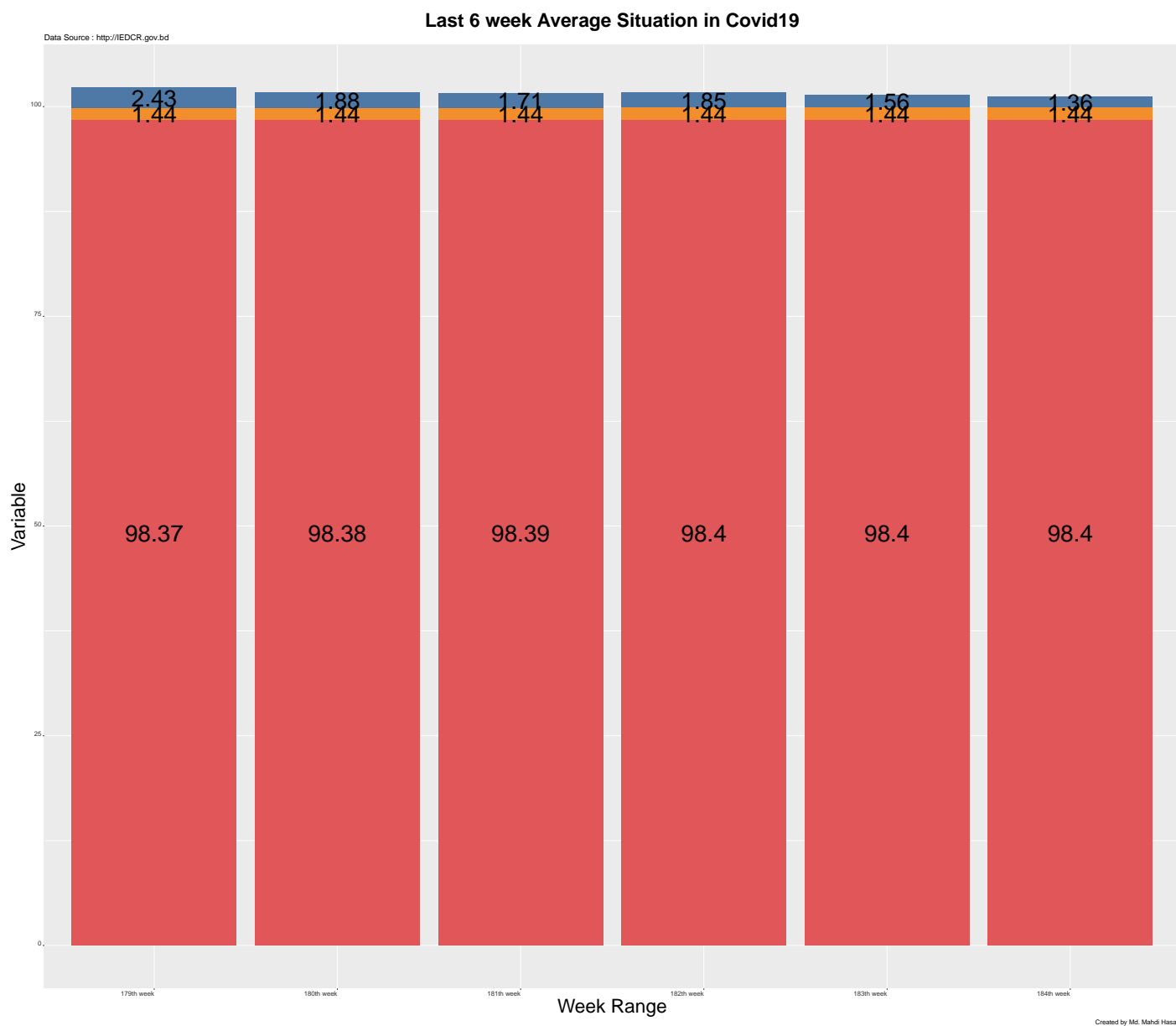
Data Source : <http://IEDCR.gov.bd>

Created by Md. Mahdi Hasan

## Last Six Weeks Average Situation

Table 5: Last 6 week Average Rates

	week	Daily_AffectedRate	Death rate	Recovery Rate
179	179th week	2.4	1.4	98
180	180th week	1.9	1.4	98
181	181th week	1.7	1.4	98
182	182th week	1.8	1.4	98
183	183th week	1.6	1.4	98
184	184th week	1.4	1.4	98



**Comment:** In this Table 3 we see that, in 184th week, the **Average affected**, **Death** and **Recovery rate** are 1.36, 1.44 and 98.4

## Monthly Situation

Table 6: Monthly Average(2020)

Month	Daily new cases	Daily new deaths	New Recoverd	New Tests	Daily_AffectedRate	Death rate
March	2.1	0.21	1.0	62	5.6	5.4
April	253.9	5.43	4.5	2083	10.1	5.6
May	1273.7	15.55	275.1	7879	15.6	1.5
June	3277.7	39.90	1668.4	15350	21.4	1.3
July	2973.5	40.77	2435.9	13237	22.6	1.3
Aug	2430.2	37.74	2250.0	12045	20.7	1.3
Sep	1682.8	32.33	2353.3	13247	12.7	1.4
Oct	1426.0	21.68	1569.6	12528	11.4	1.5
Nov	1908.3	24.03	1885.5	14548	13.1	1.4
Dec	1567.0	29.52	2475.7	14675	10.6	1.4

Table 7: Monthly Average(2021)

	Month	Daily new cases	Daily new deaths	New Recoverd	New Tests	Daily_AffectedRate	Death rate
11	Jan21	698	18.3	719	13681	5.2	1.5
12	Feb21	396	10.0	614	14012	2.8	1.5
13	March21	2099	20.6	1467	20147	9.4	1.5
14	April21	4928	80.1	4634	26604	18.3	1.4
15	May21	1336	37.7	1901	15213	8.8	1.6
16	June21	3757	62.8	2529	22047	16.1	1.6
17	July21	10878	199.4	8450	36487	29.9	1.6
18	Aug21	8101	177.7	11218	38337	20.1	1.7
19	Sep21	1843	43.8	2999	26765	6.9	1.8
20	Oct21	440	11.6	564	19954	2.1	1.8
21	Nov21	225	3.8	251	17963	1.2	1.8
22	Dec21	301	3.0	261	19307	1.6	1.8

Table 8: Monthly Average(2022)

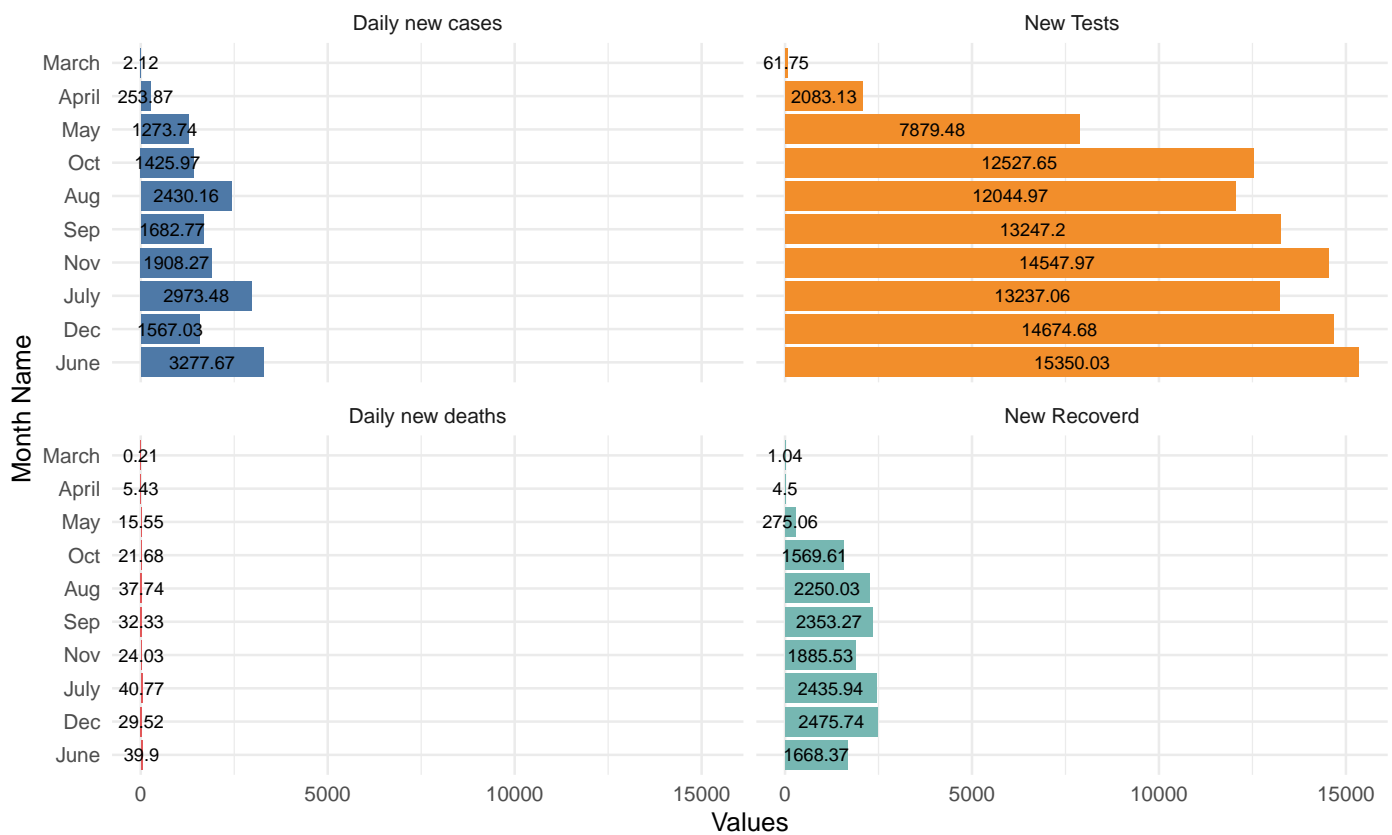
	Month	Daily new cases	Daily new deaths	New Recoverd	New Tests	Daily_AffectedRate	Death rate
23	Jan22	7097	10.60	630	32416	18.68	1.7
24	Feb22	5169	22.96	8802	32982	14.00	1.5
25	March22	258	2.74	2150	13635	1.63	1.5
26	April22	37	0.17	470	5547	0.66	1.5
27	May22	26	0.13	237	4344	0.60	1.5
28	June22	676	0.60	158	7515	6.70	1.5
29	July22	1015	4.58	1126	8408	11.71	1.5
30	Aug22	216	1.06	454	4616	4.63	1.5
31	Sep22	442	1.33	290	4179	10.41	1.4

	Month	Daily new cases	Daily new deaths	New Recoverd	New Tests	Daily_AffectedRate	Death rate
32	Oct22	324	1.90	504	4094	7.84	1.4
33	Nov22	45	0.33	167	3129	1.40	1.4
34	Dec22	17	0.23	61	2366	0.76	1.4

Table 9: Monthly Average(2022)

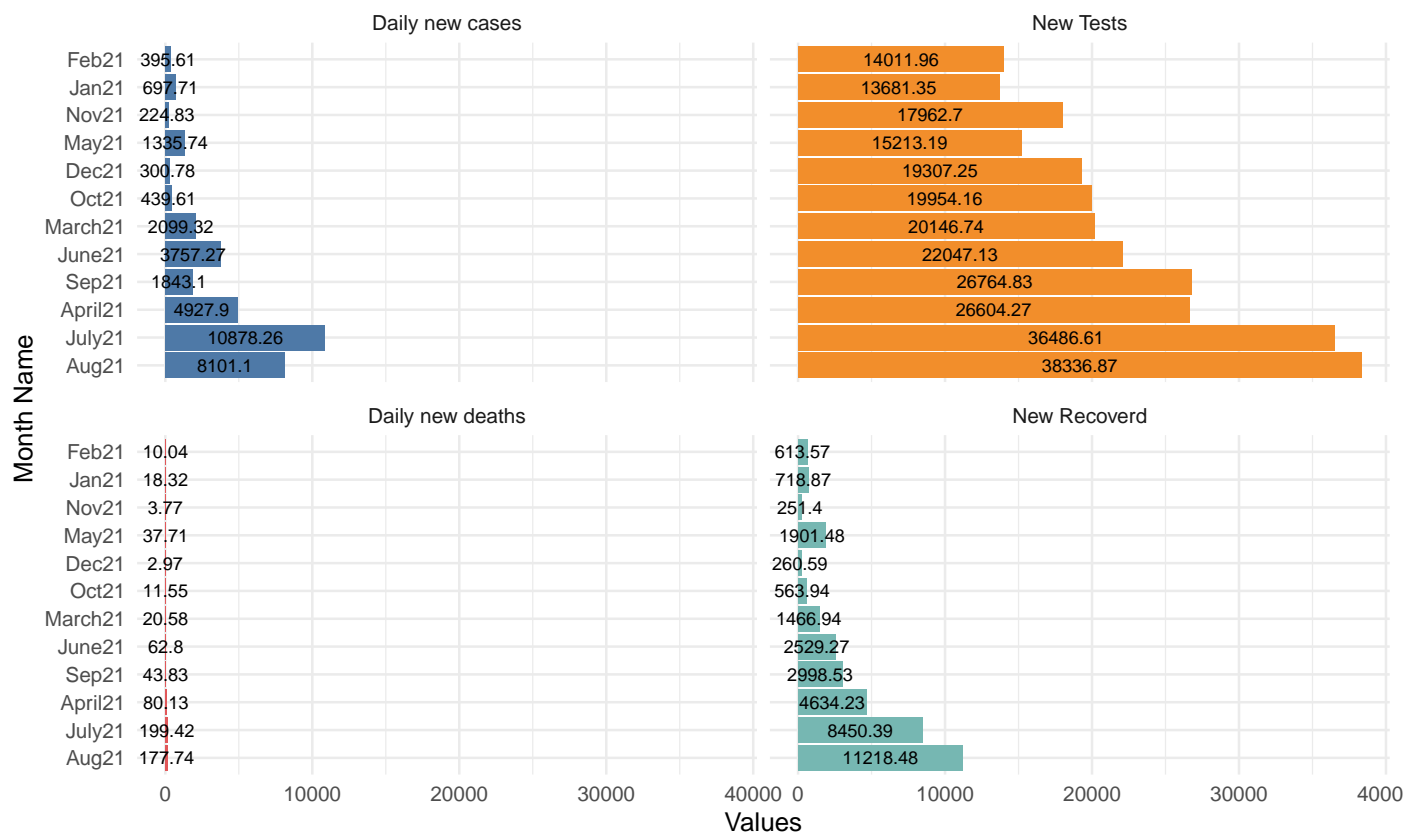
	Month	Daily new cases	Daily new deaths	New Recoverd	New Tests	Daily_AffectedRate	Death rate
35	Jan23	13.9	0.06	167.4	2494	0.57	1.4
36	Feb23	9.6	0.11	309.6	2022	0.49	1.4
37	Mar23	6.4	0.03	152.2	1588	0.42	1.4
38	April23	6.9	0.00	3.7	1127	0.69	1.4
39	May23	36.0	0.00	16.1	1190	2.87	1.4
40	June23	108.2	0.53	86.2	1518	7.17	1.4
41	July23	60.2	0.32	83.7	1376	4.53	1.4
42	Aug23	28.9	0.13	46.6	1251	2.21	1.4

## Monthly Average(2020) of Covid 19 Condition

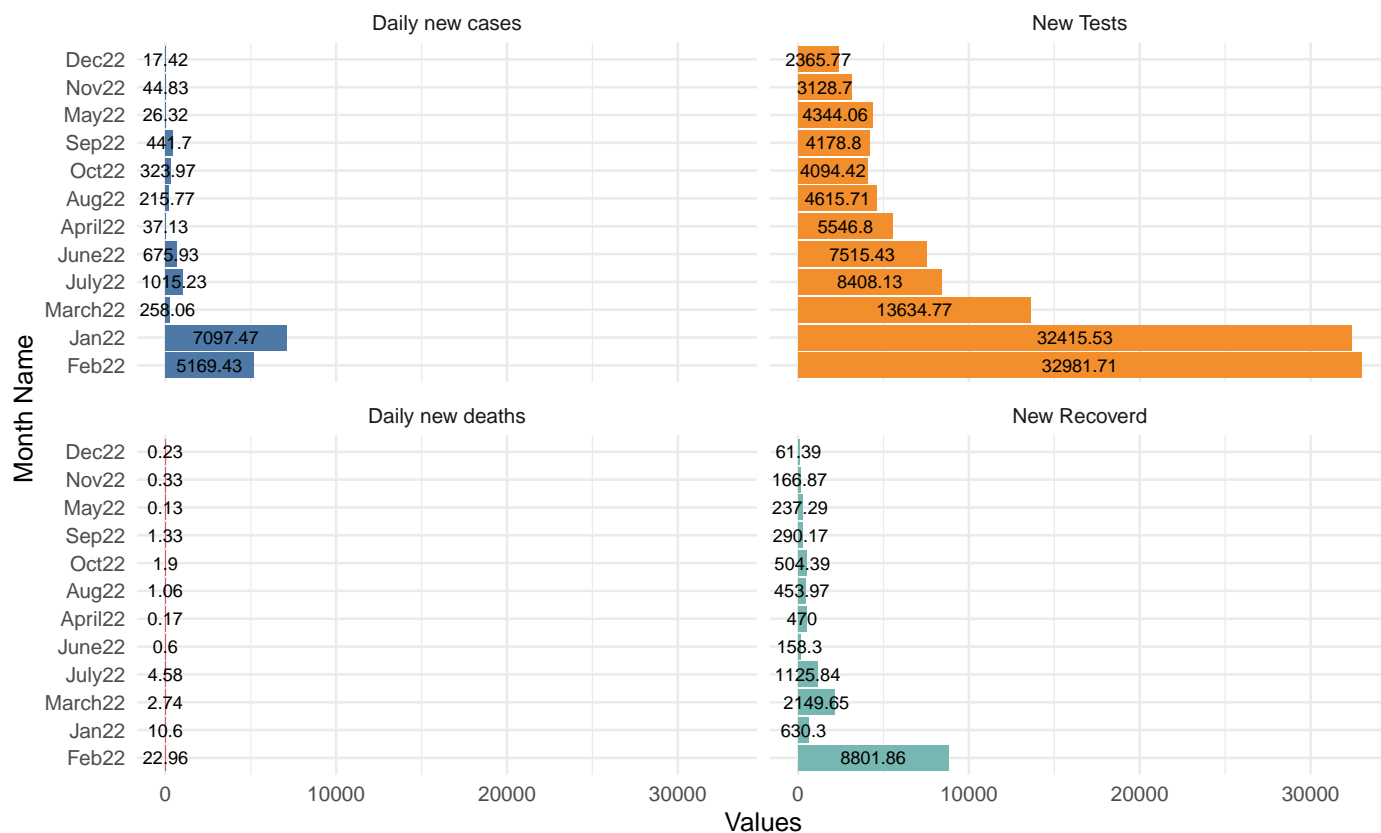
Data Source: <http://IEDCR.gov.bd>



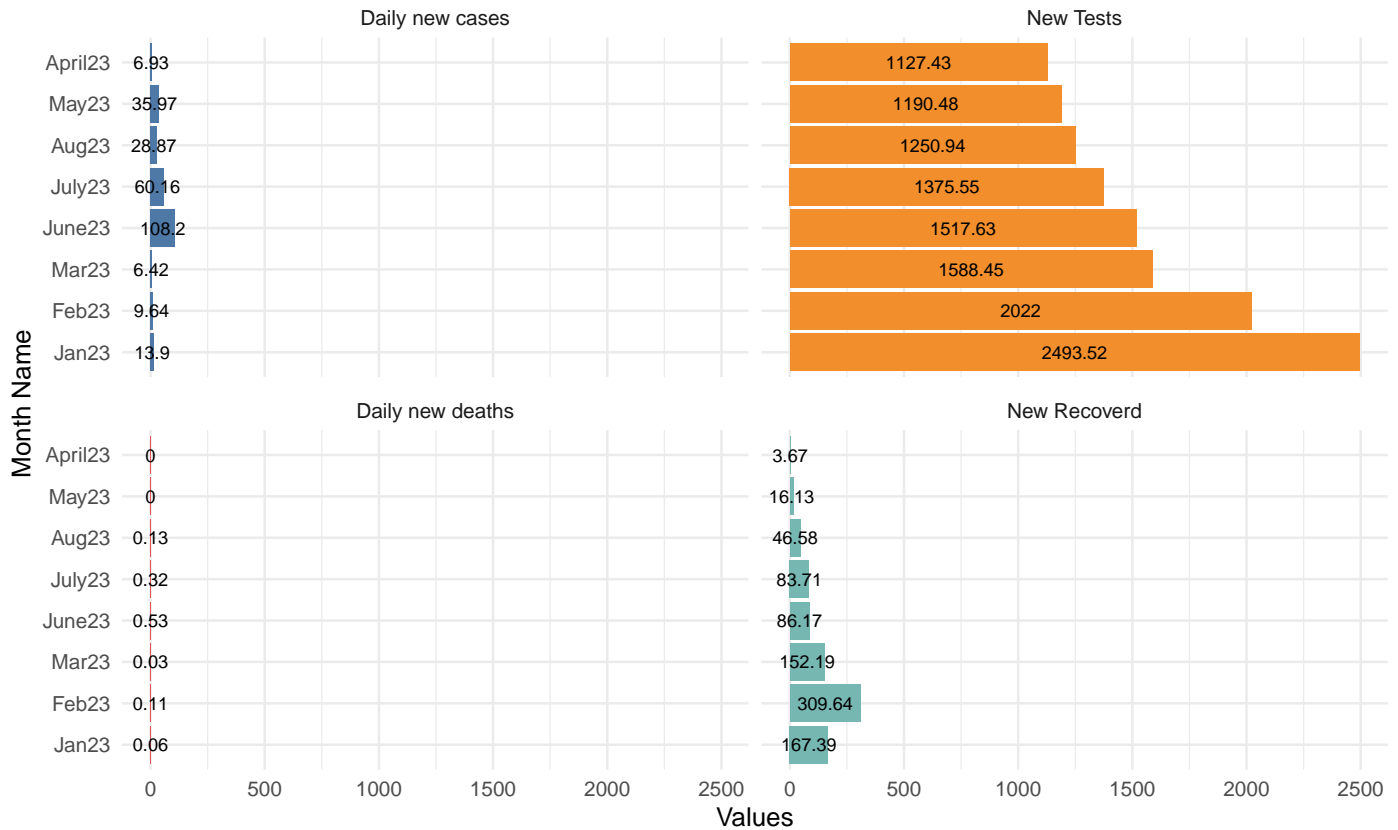
## Monthly Average(2021) of Covid 19 Condition

Data Source: <http://IEDCR.gov.bd>

## Monthly Average(2022) of Covid 19 Condition

Data Source: <http://IEDCR.gov.bd>

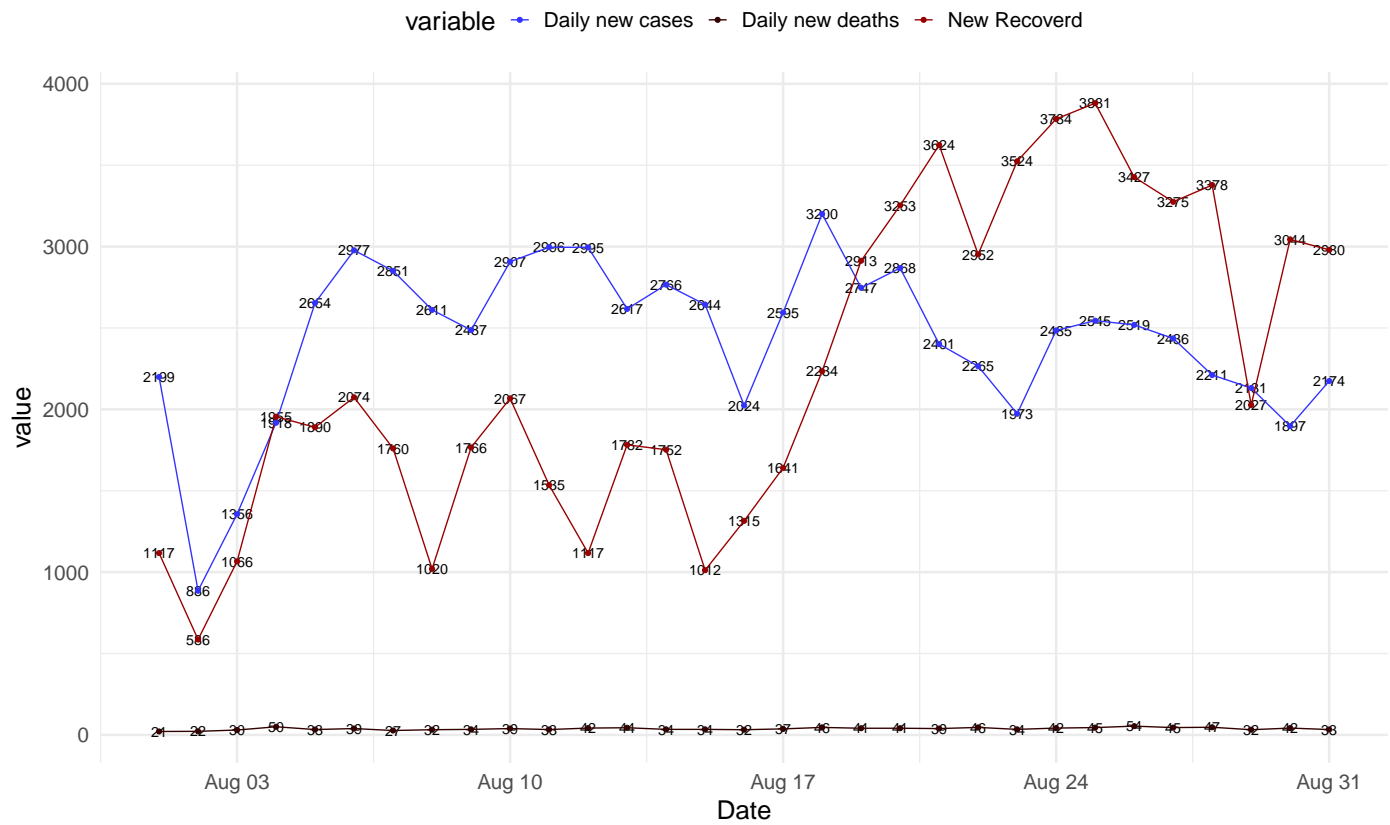
## Monthly Average of Covid 19 Condition in 2023

Data Source: <http://IEDCR.gov.bd>

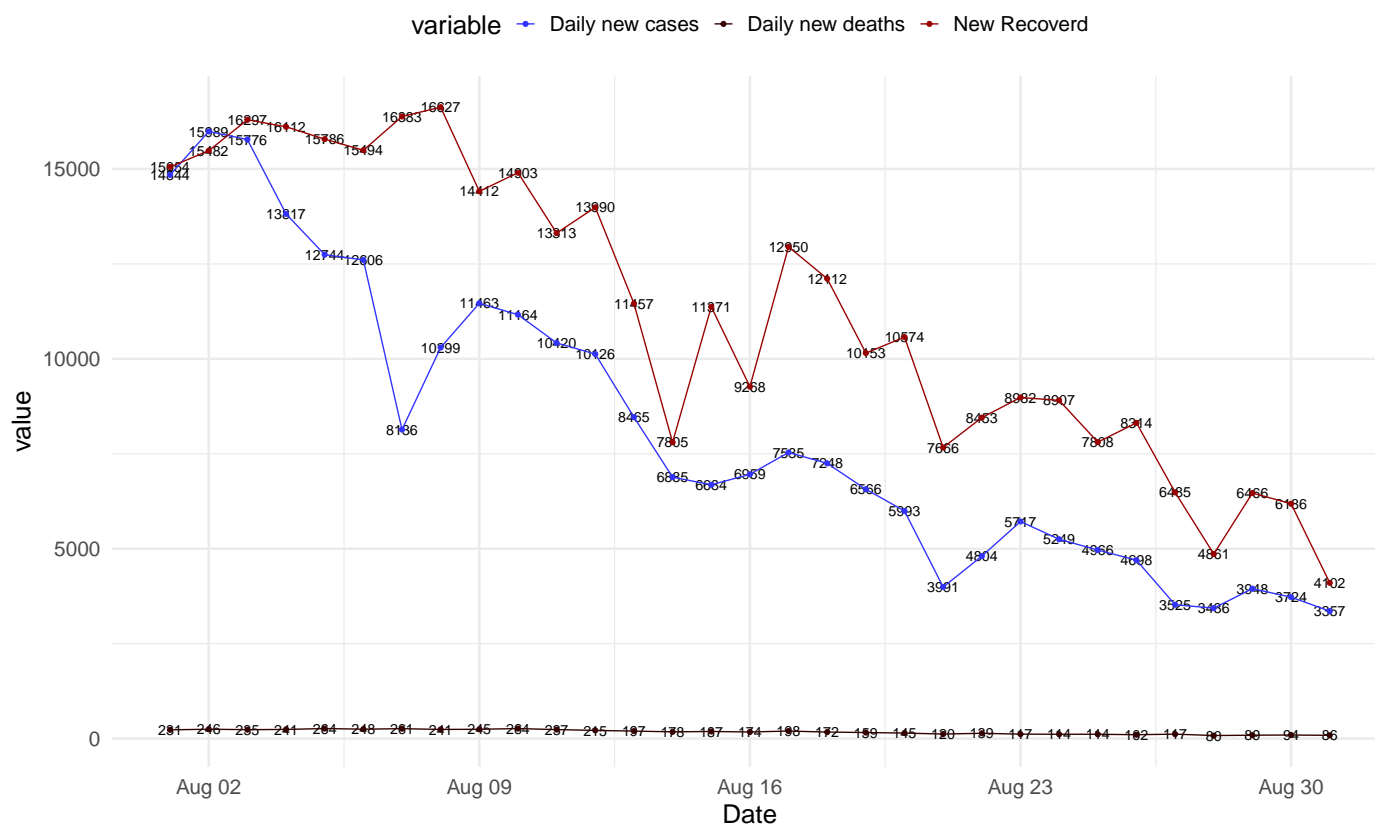
**Comment:** From the above plot we see that, in Aug23, the **Average Daily New Case**, **Average Daily New Death**, **Average Daily Recoverd**, **Daily Affected Rate** and **Death Rate** are 28.87, 0.13, 46.58, 2.21 and 1.44

## Monthly Total

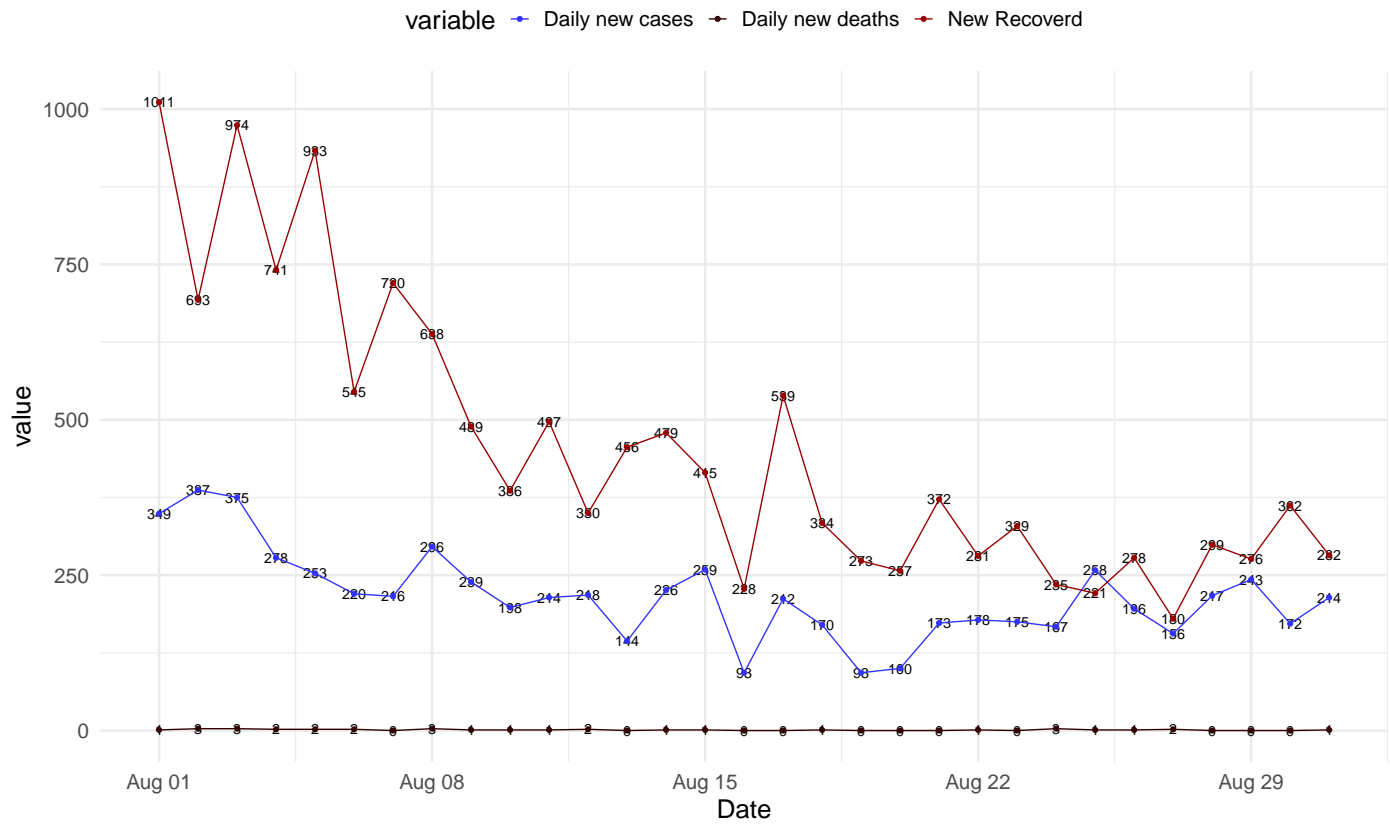
## August Month New Cases, New Death and New recovered

Source: <http://IEDCR.gov.bd>

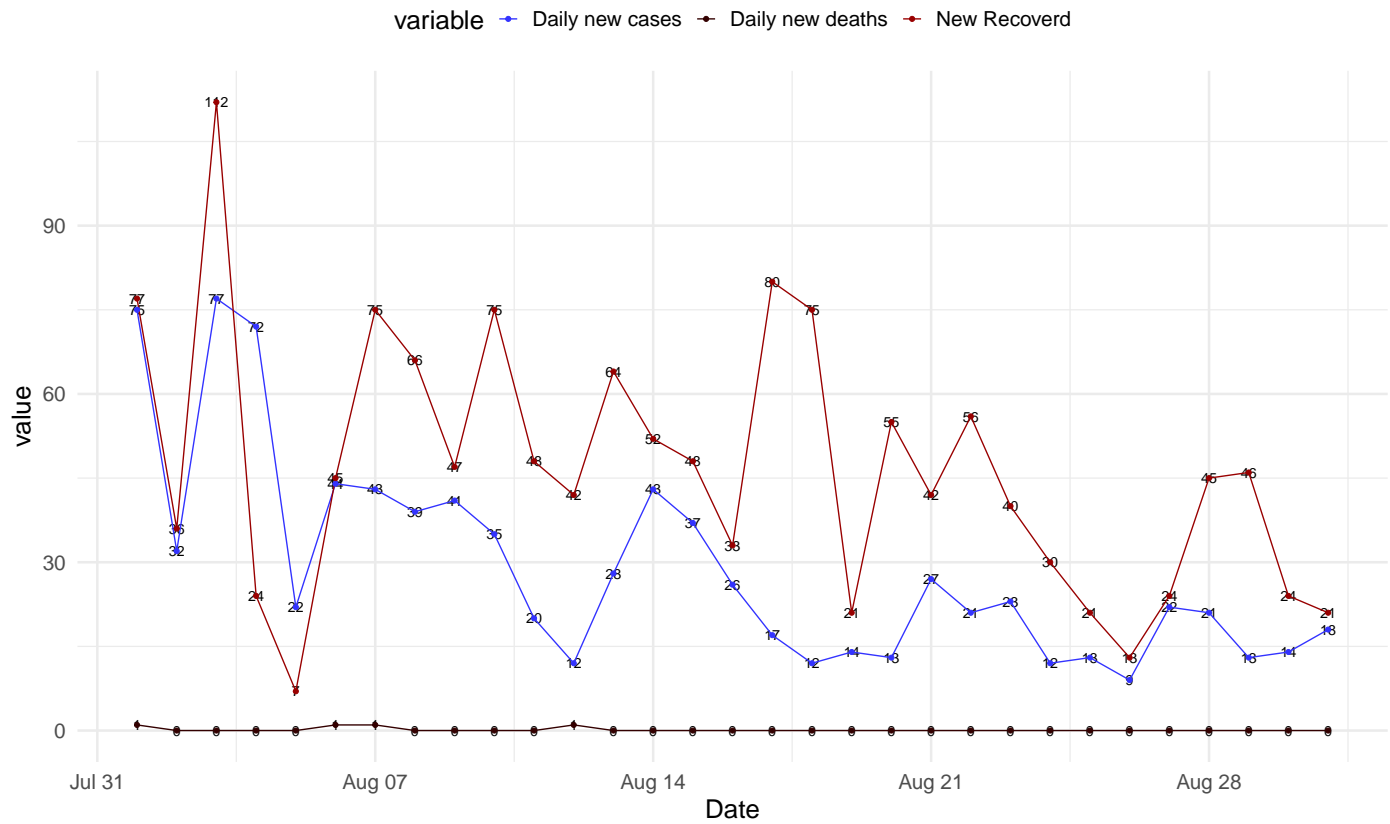
## August 2021 Covid 19 Situation

Source: <http://IEDCR.gov.bd>

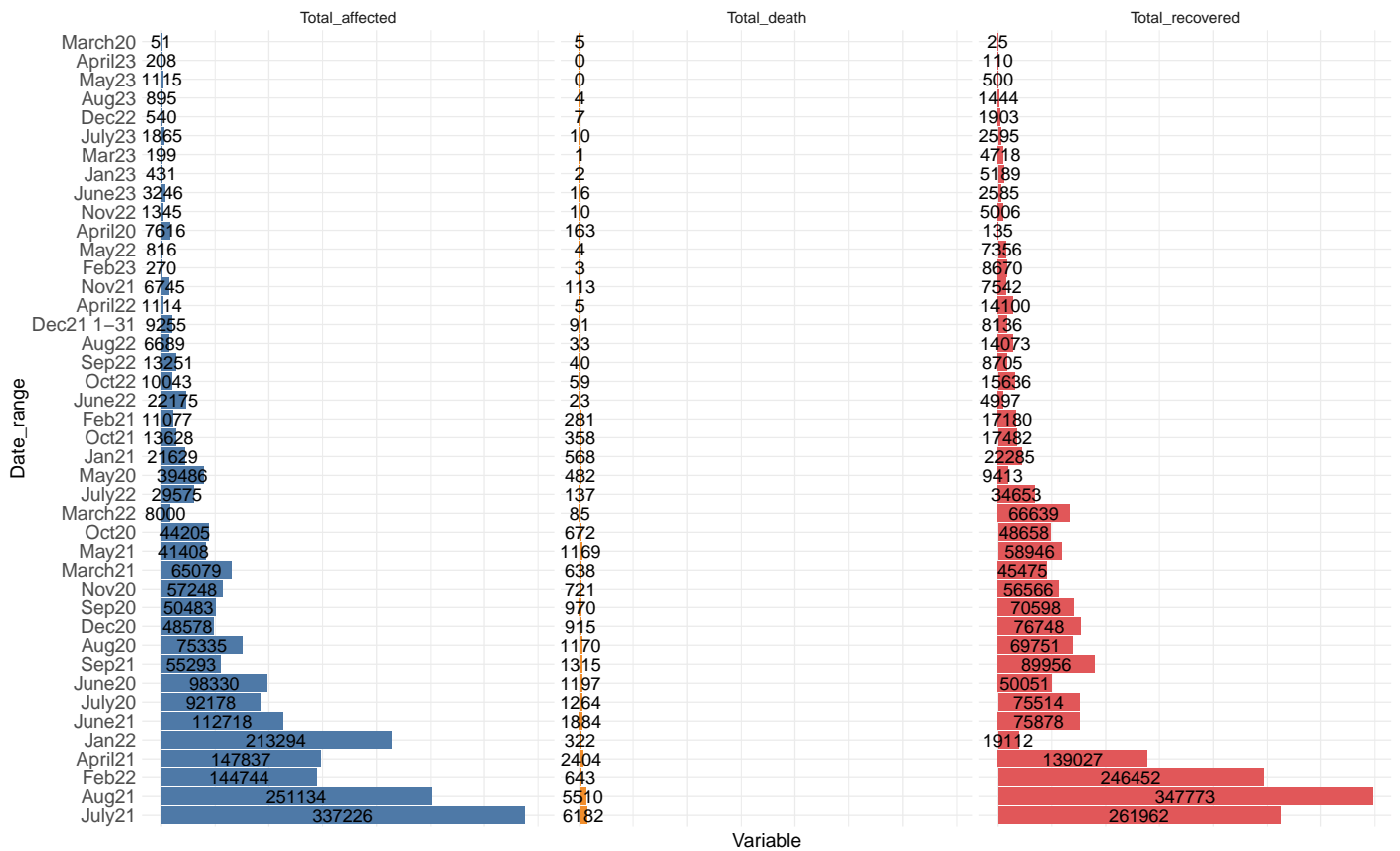
## August 2022 Covid 19 Situation

Source: <http://IEDCR.gov.bd>

## August 2023 Covid 19 Situation

Source: <http://IEDCR.gov.bd>

## Monthly Total Confirmed, Total Death &amp; Total Recovered about covid 19

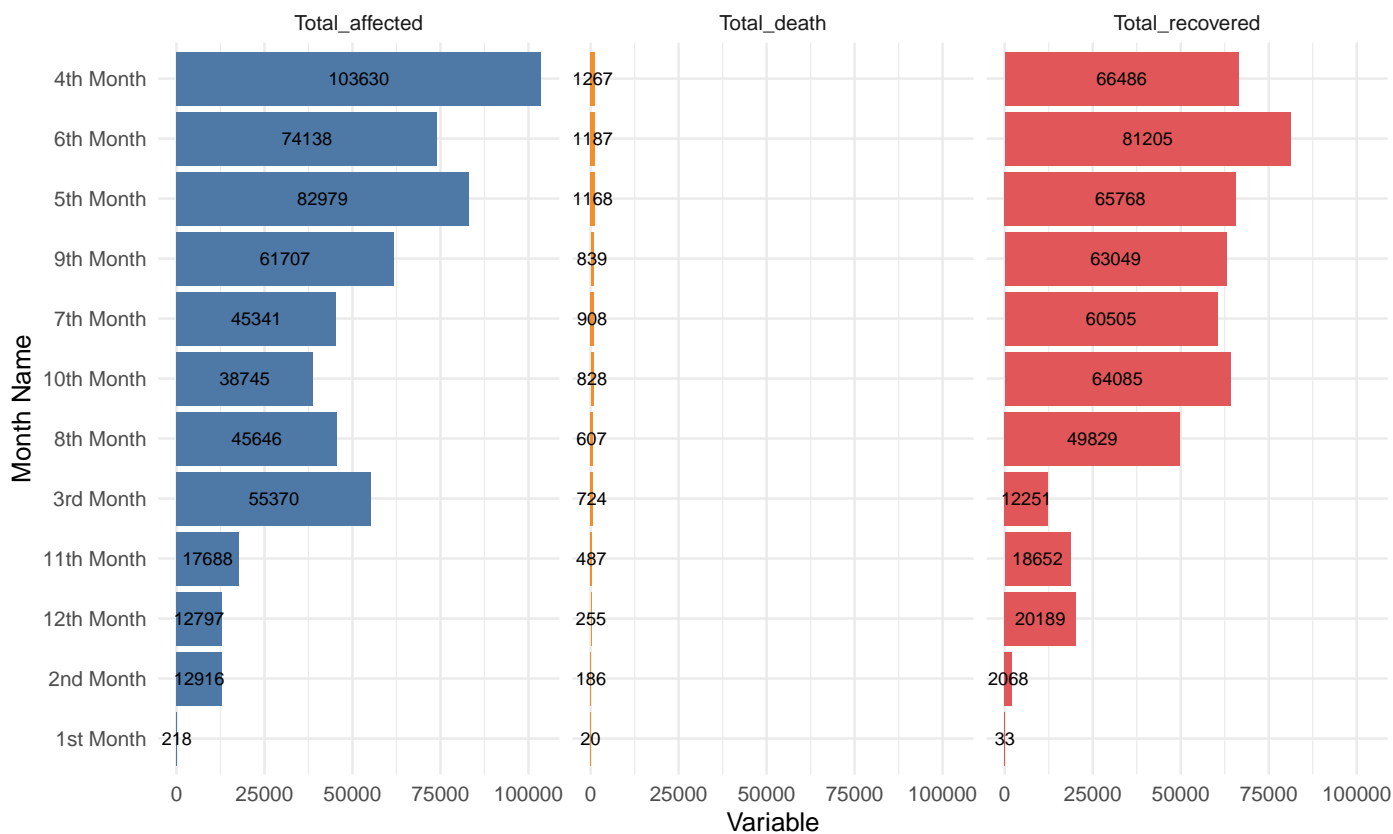
Data Source : <http://IEDCR.gov.bd>

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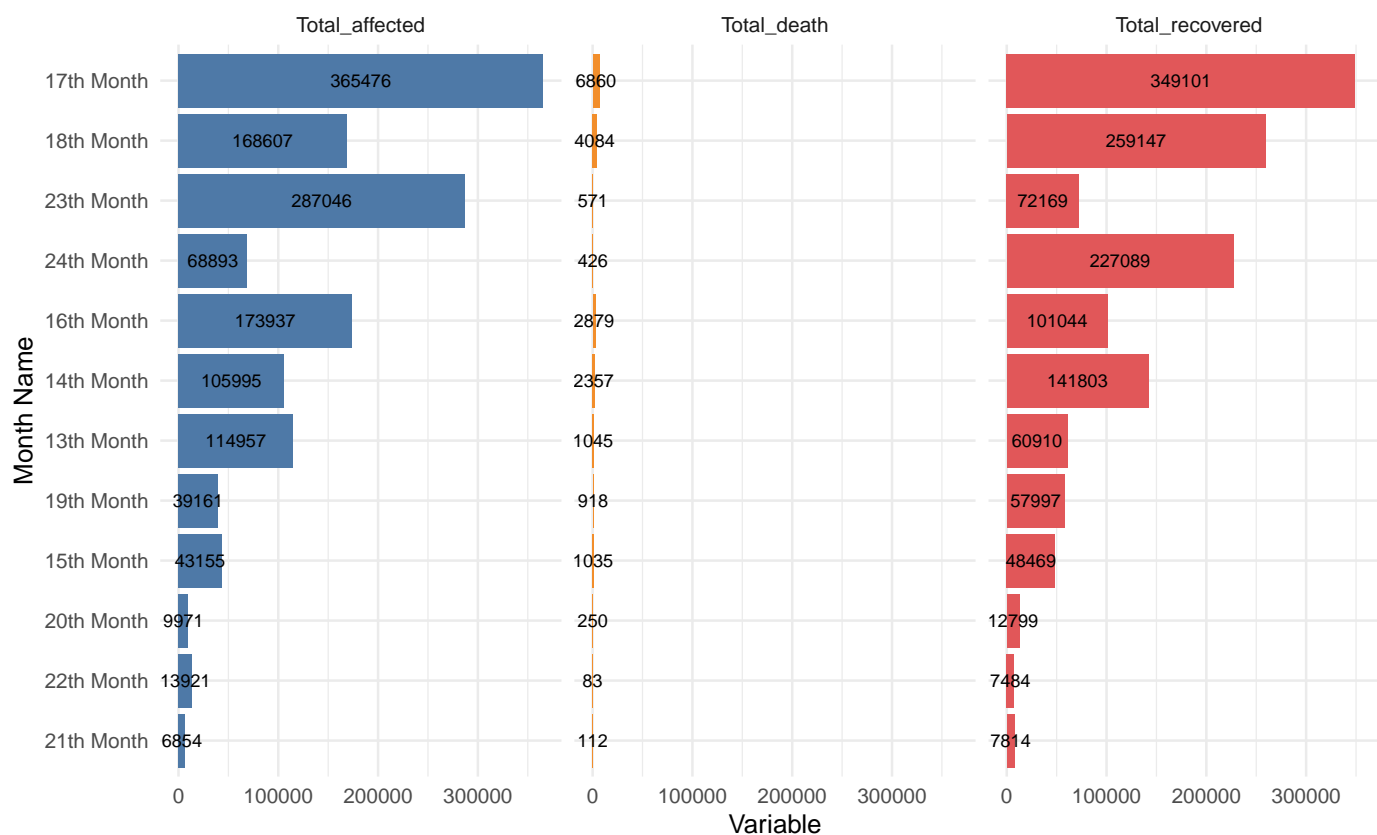


## Monthly Total2

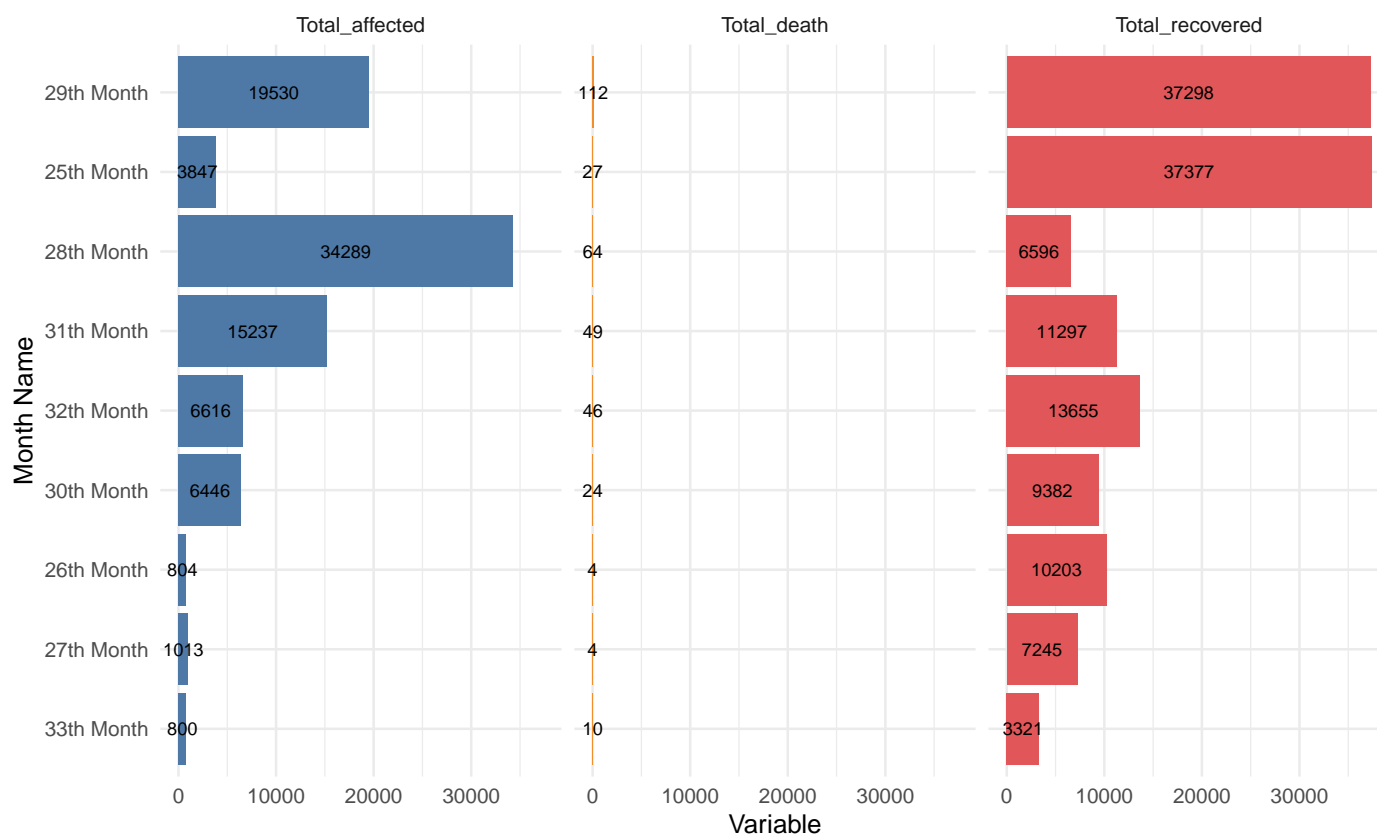
Monthly Total Affected, Death and Recovery Situation in Covid 19 in 2020

Data Source: <https://IEDCR.gov.bd>

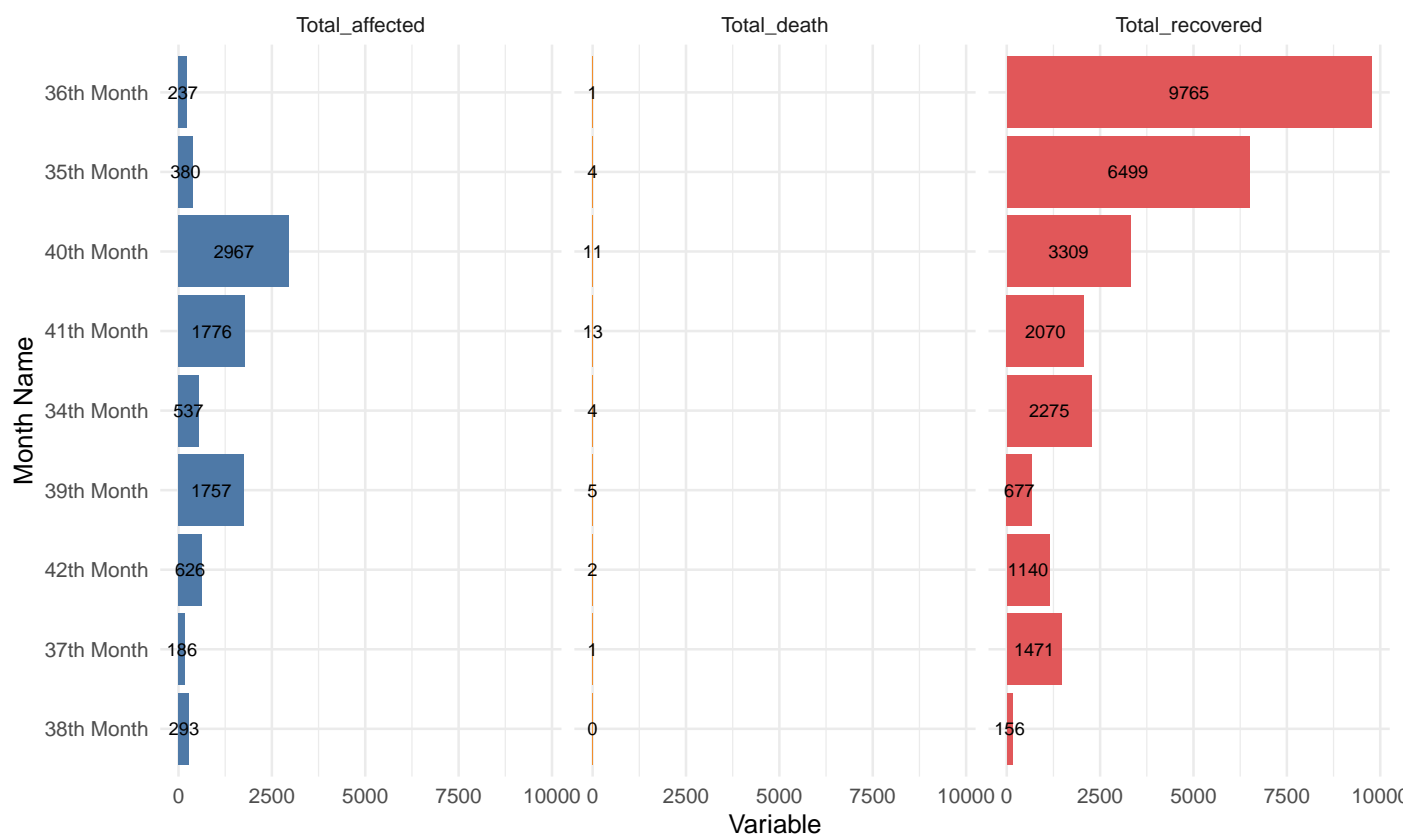
## Monthly Total Affected, Death and Recovery Situation in Covid 19 in 2021

Data Source: <https://IEDCR.gov.bd>

## Monthly Total Affected, Death and Recovery Situation in Covid 19 in 2022

Data Source: <https://IEDCR.gov.bd>

## Monthly Total Affected, Death and Recovery Situation in Covid 19 in 2023

Data Source: <https://IEDCR.gov.bd>

**Comment:** From the above plot we see that, in 42th Month, the **Total Affected**, **Total Death**, and **Total Recovered** are 626, 2 and 1140.

## Monthly Total3

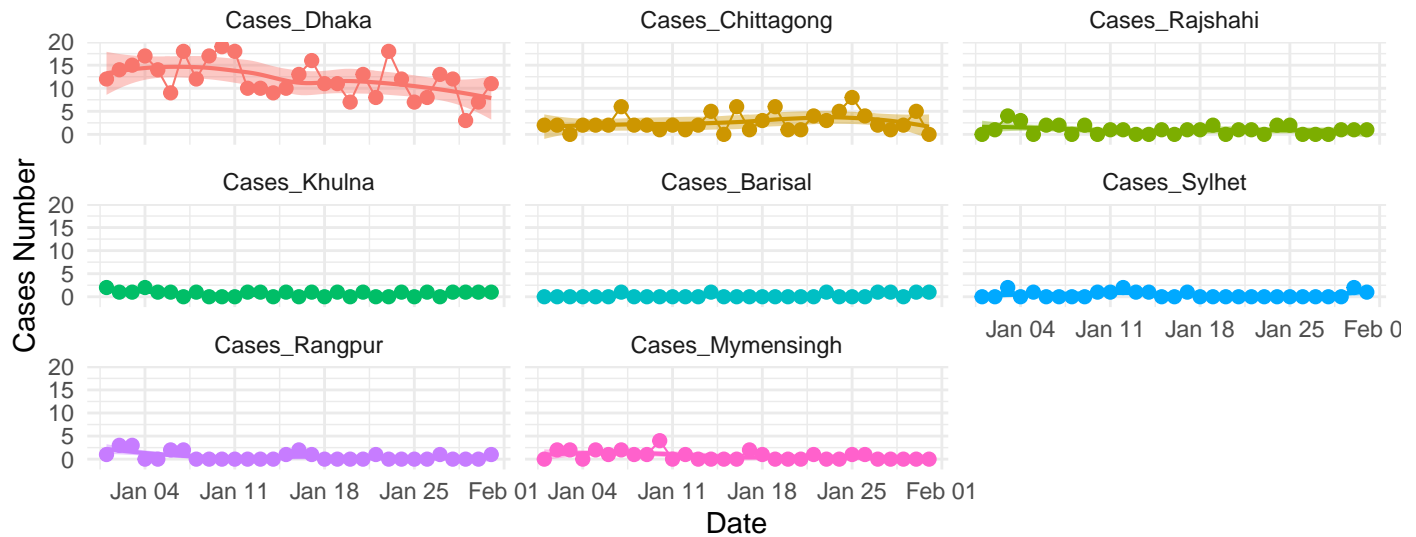
Table 10: Monthly Average(Since March 8)

	Month_Names	Daily new cases	Daily new deaths	New Recoverd	New Tests	Daily_AffectedRate	Death Rate	Recovery Rate
37	37th Month	6.0	0.03	47	1511	0.42	1.4	98
38	38th Month	9.8	0.05	145	1761	0.63	1.4	98
39	39th Month	56.7	0.16	22	1311	4.14	1.4	98
40	40th Month	98.9	0.37	110	1459	6.72	1.4	98
41	41th Month	57.3	0.42	67	1484	4.02	1.4	98
42	42th Month	20.2	0.06	37	1154	1.79	1.4	98

## May 2021 Daily Covid 19 District Situation

## District Daily new death in January 2021

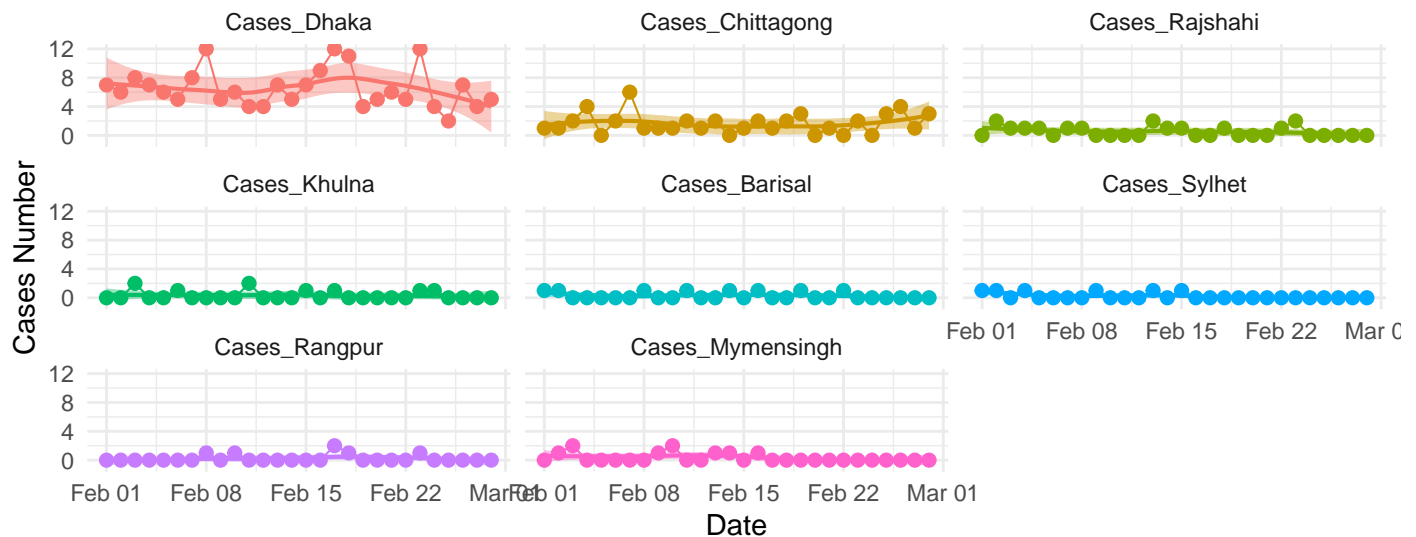
Data Source: dghs.gov.bd



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## District Daily new death in February 2021

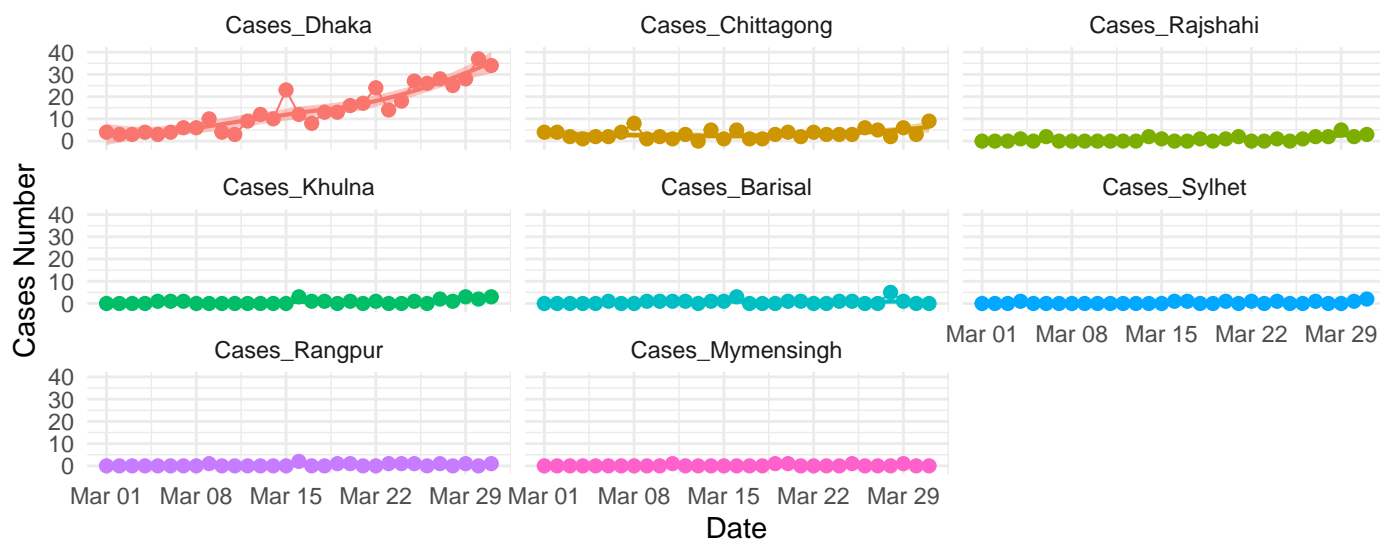
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## District Daily new death in March 2021

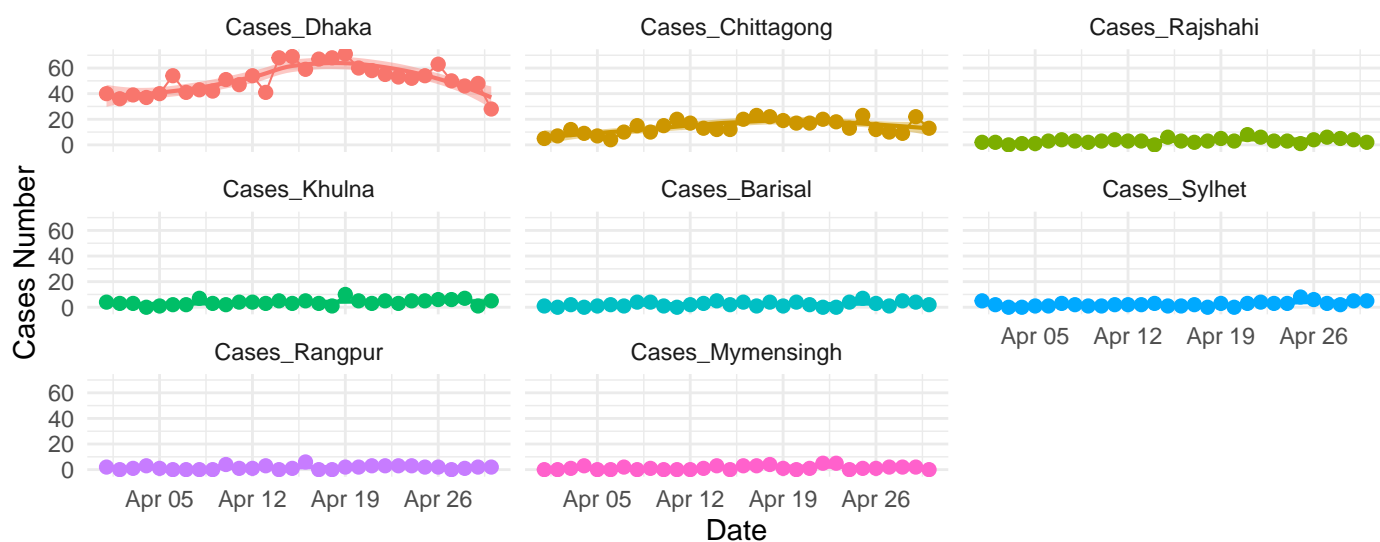
Data Source: dghs.gov.bd



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## District Daily new death in April 2021

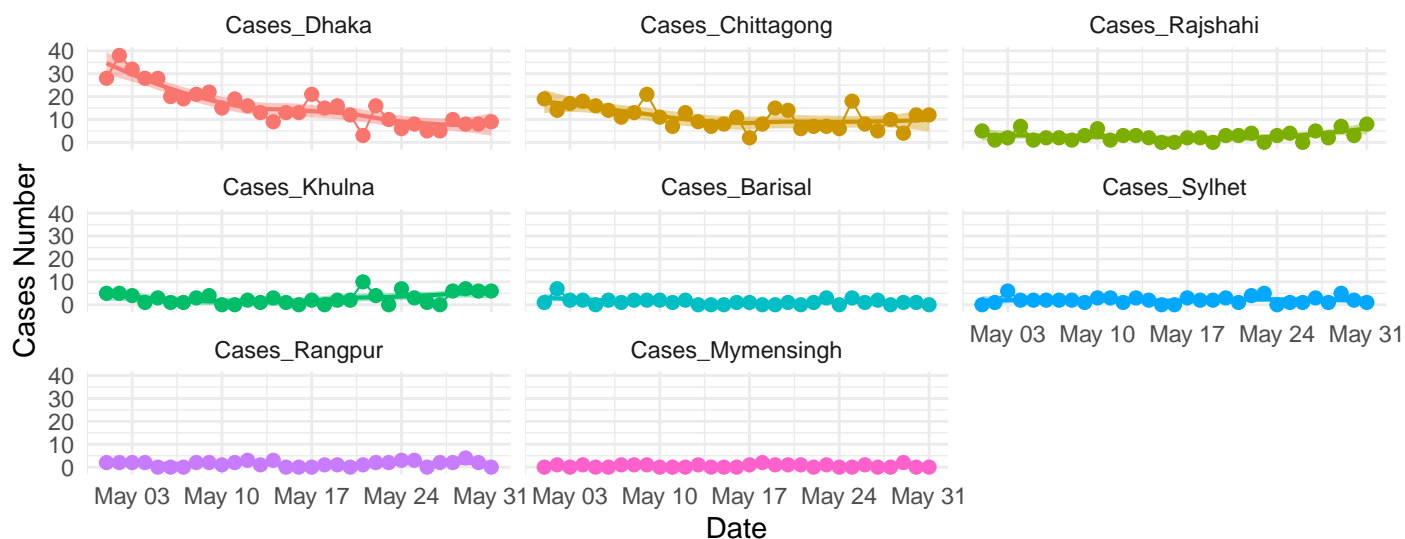
Data Source: dghs.gov.bd



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## District Daily new death in May 2021

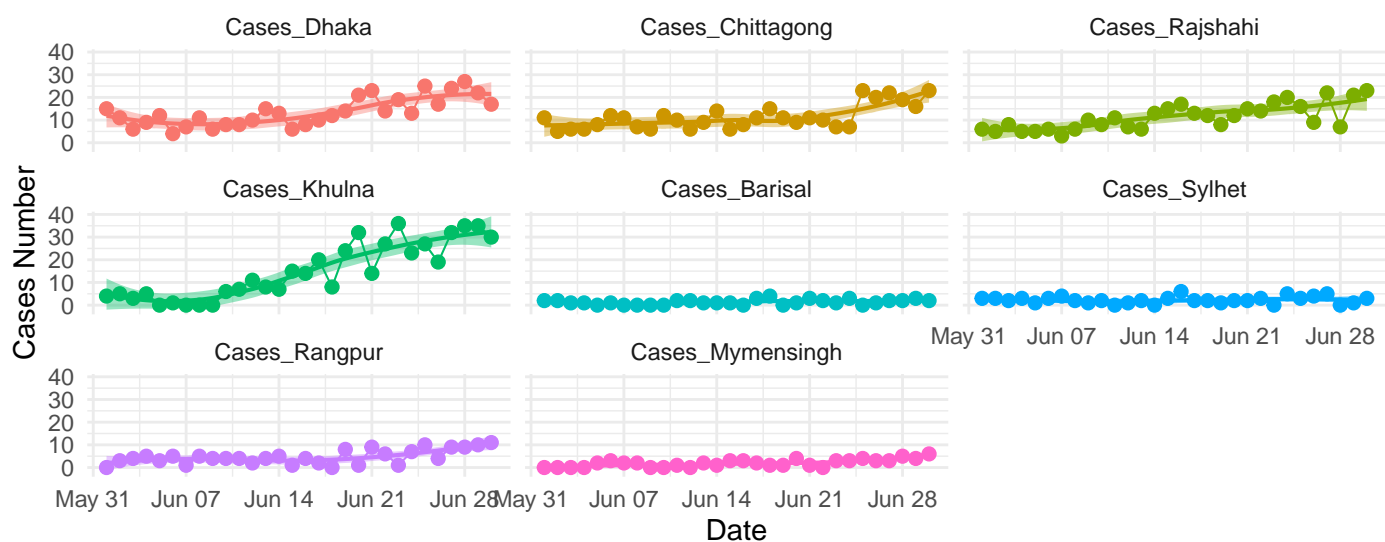
Data Source: dghs.gov.bd



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## District Daily new death in June 2021

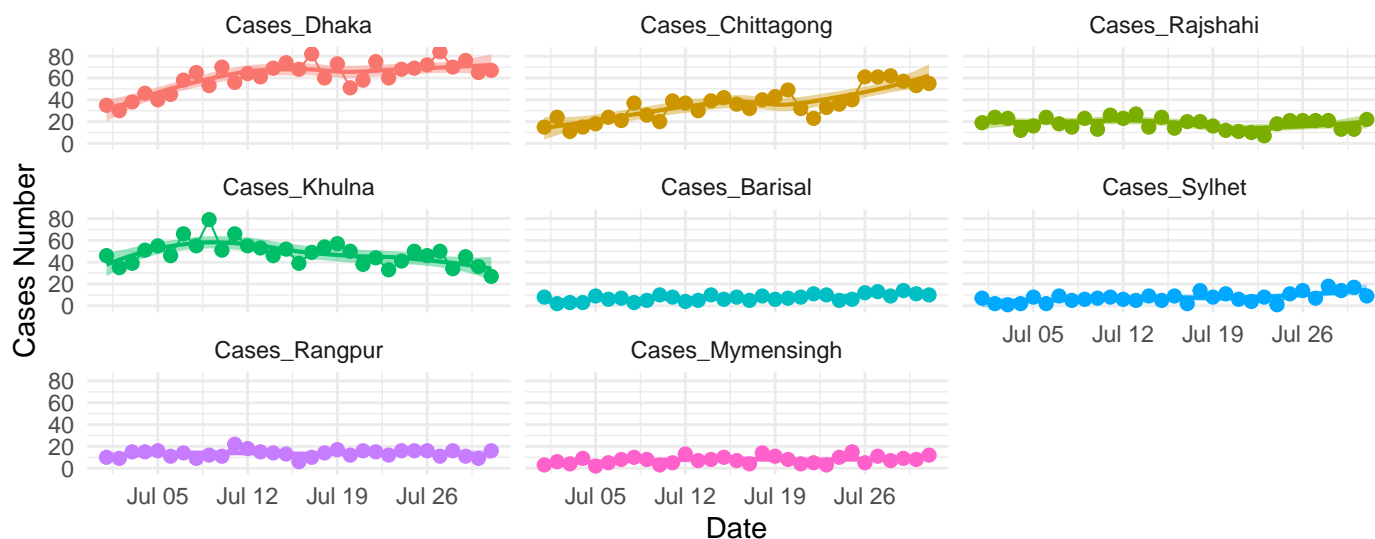
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## District Daily new death in July 2021

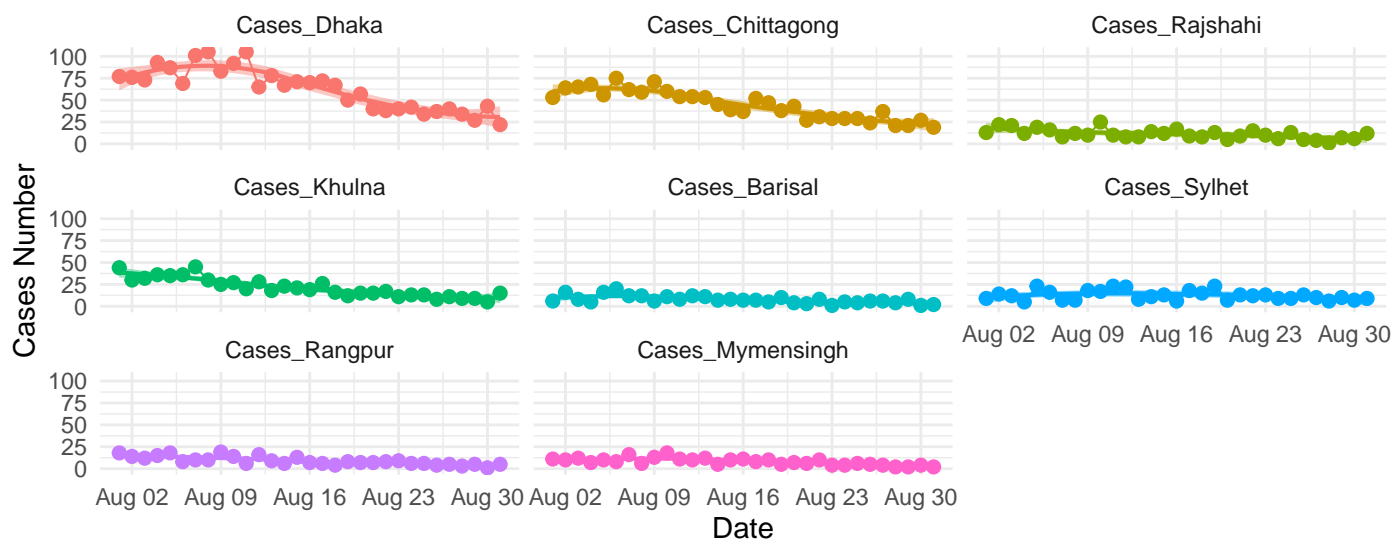
Data Source: dghs.gov.bd



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## District Daily new death in August 2021

Data Source: dghs.gov.bd

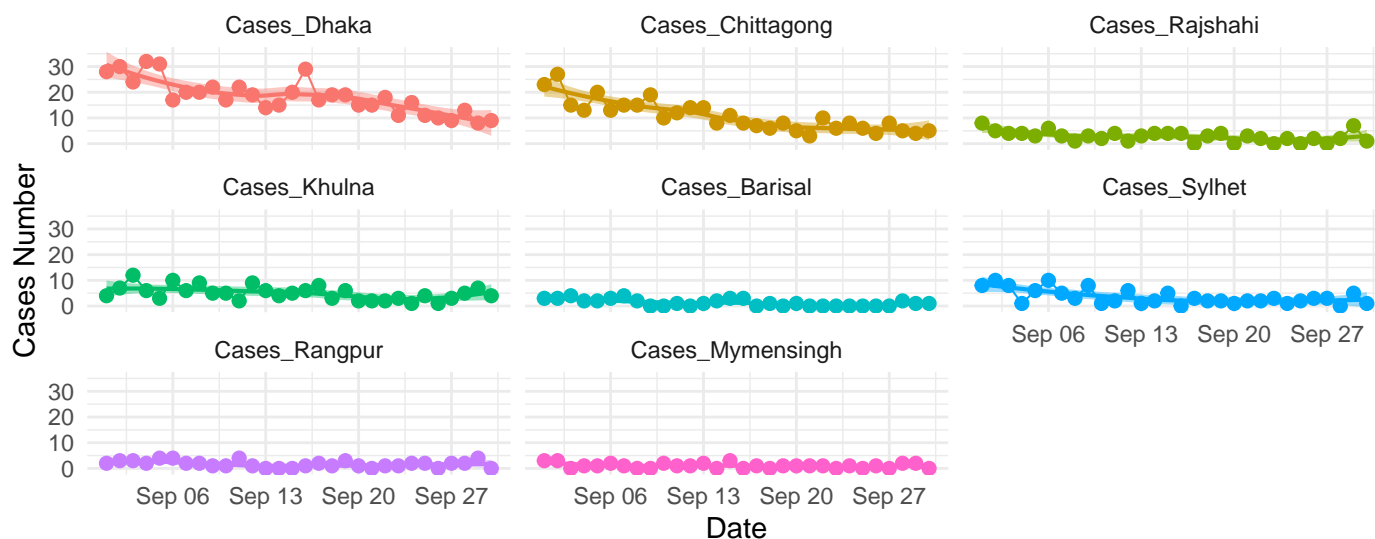


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## District Daily new death in September 2021

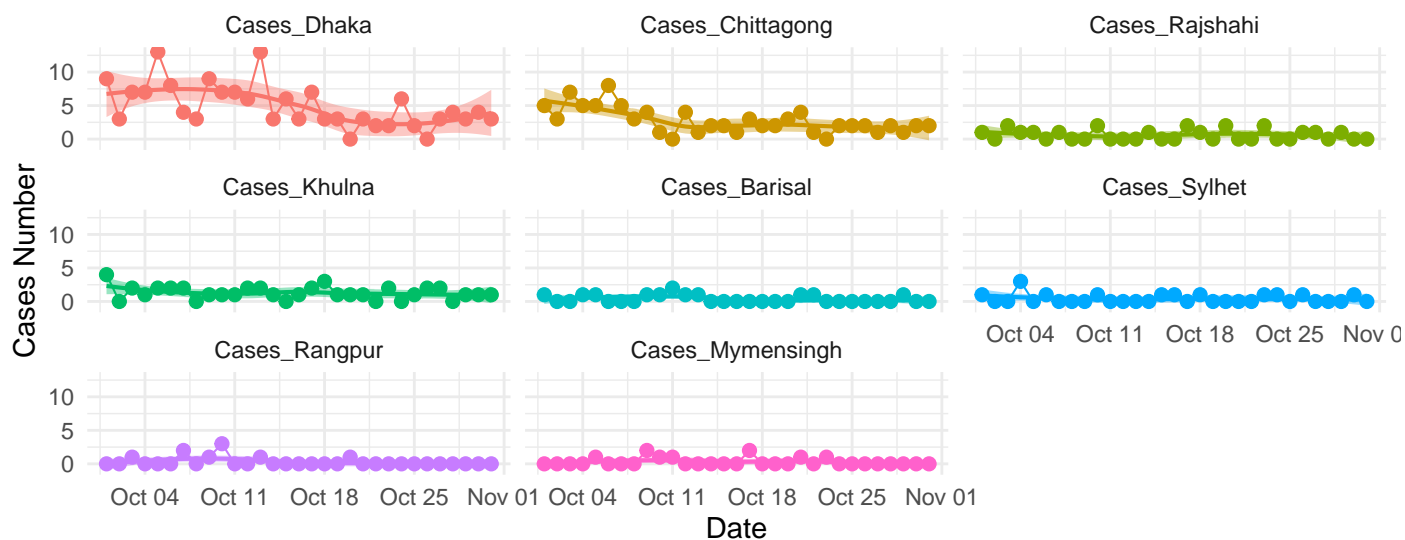
Data Source: dghs.gov.bd



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## District Daily new death in October 2021

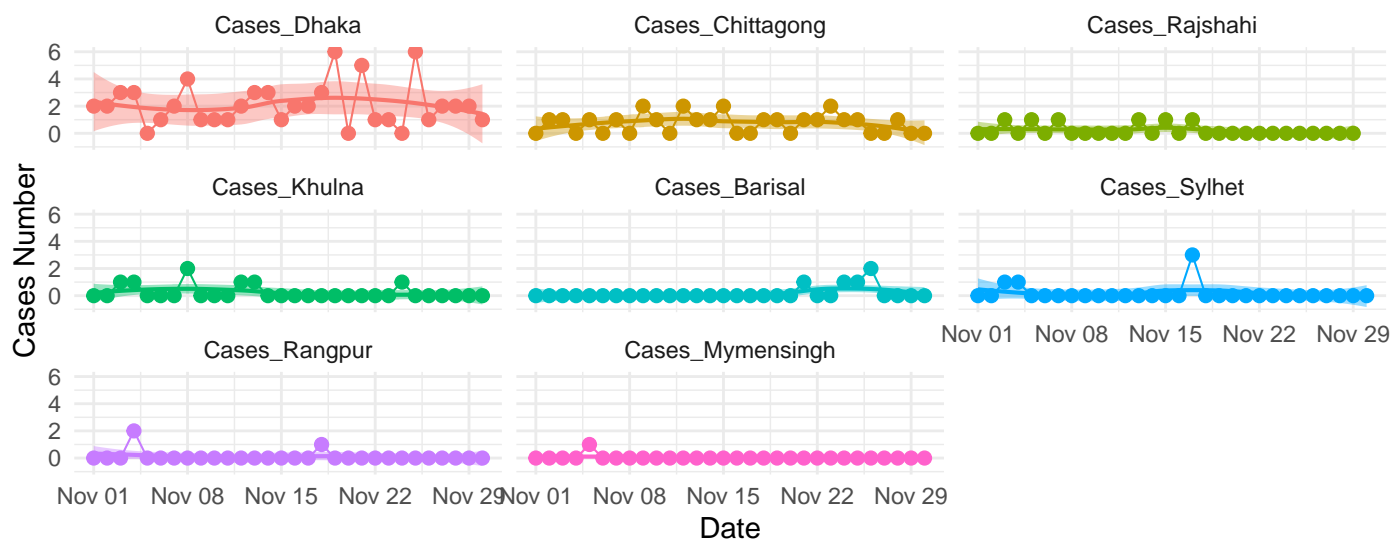
Data Source: dghs.gov.bd



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## District Daily new death in November 2021

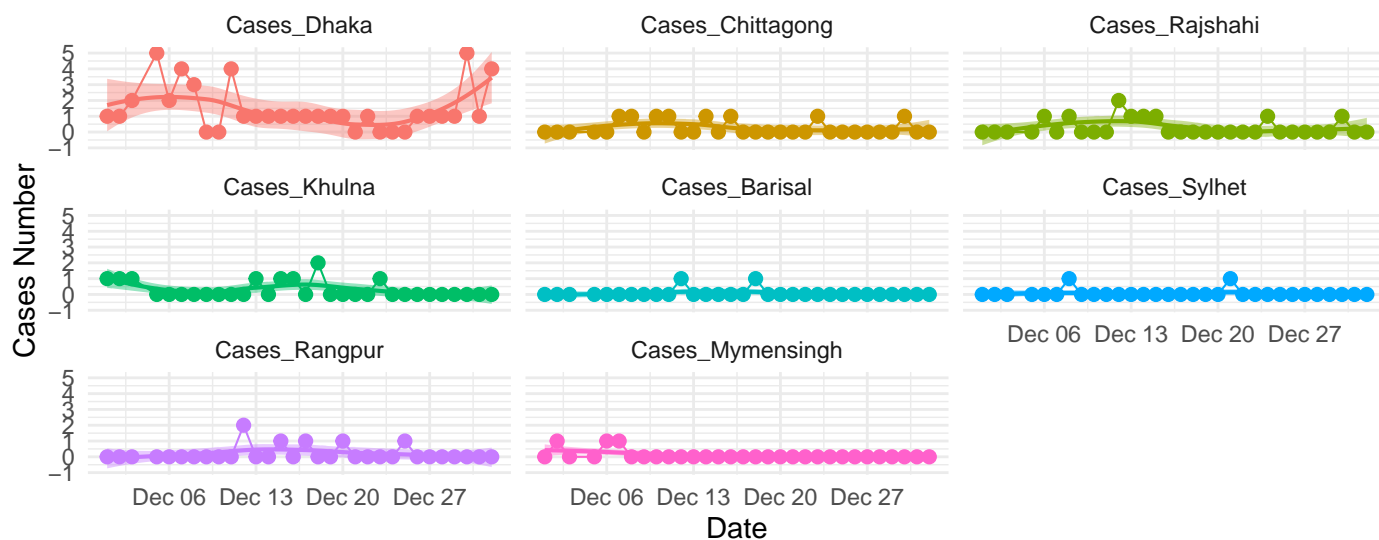
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## District Daily new death in December 2021

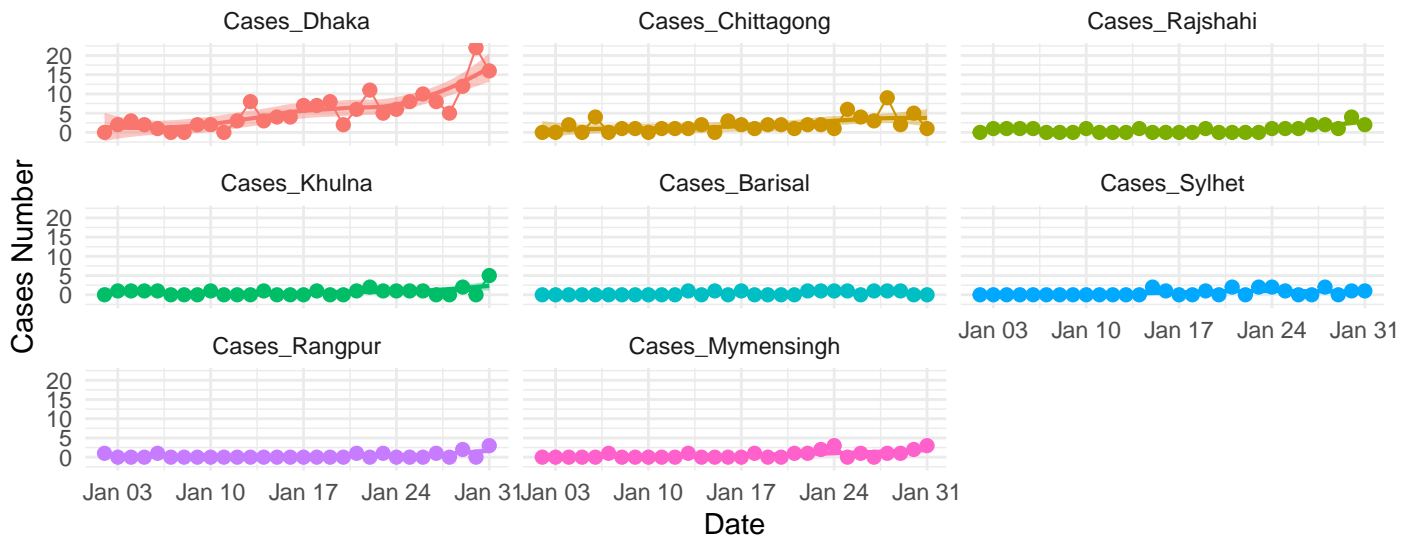
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## District Daily new death in January 2022

Data Source: dghs.gov.bd

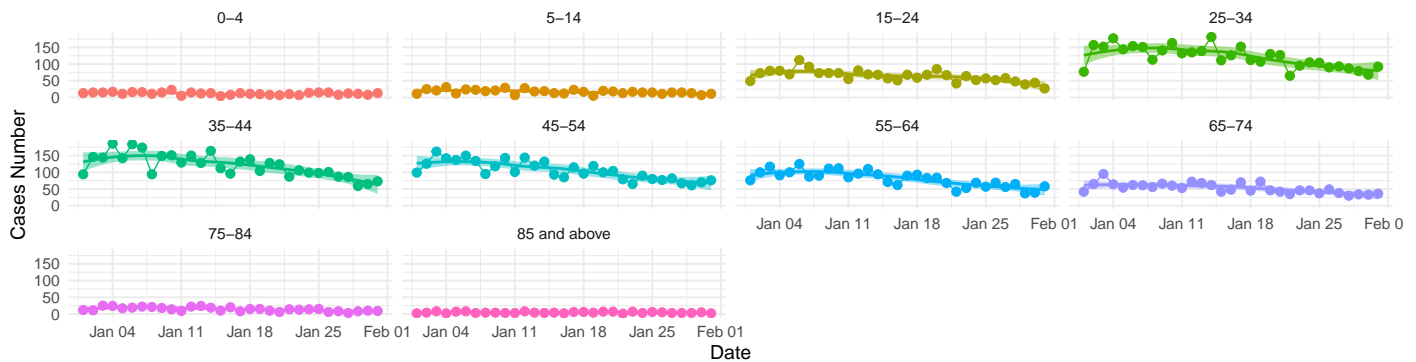


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## Daily Confirmed Age Situation in 2021

### Number of confirmed Cases By Age in January 2021

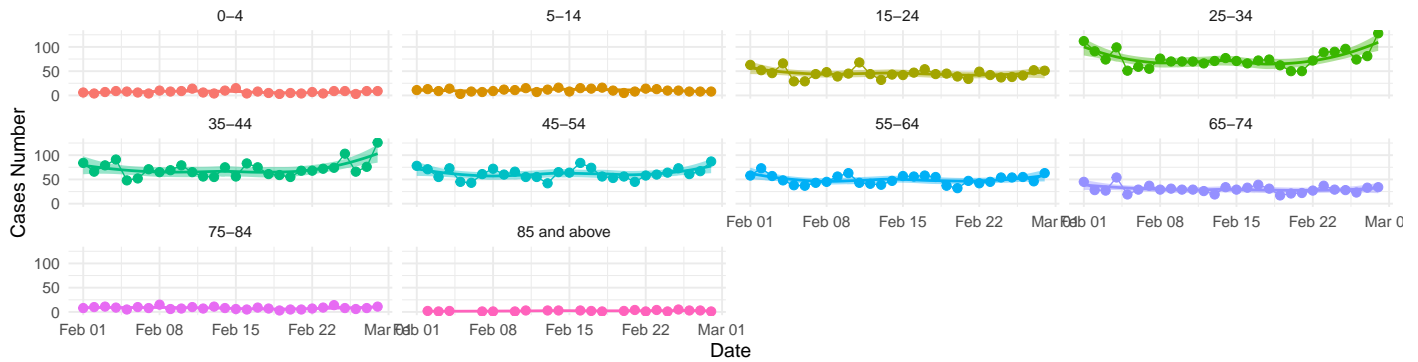
Data Source: dghs.gov.bd



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## Number of confirmed Cases By Age in February 2021

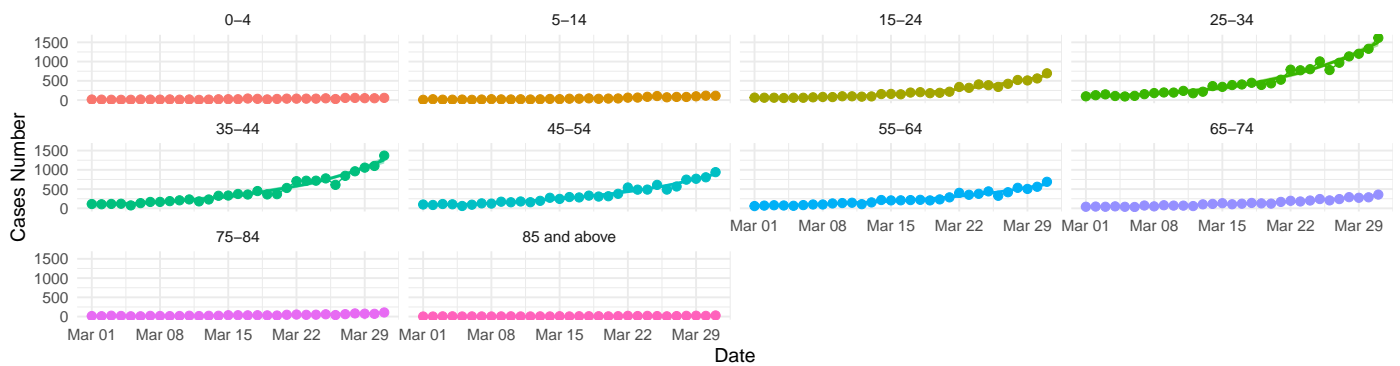
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of confirmed Cases By Age in March 2021

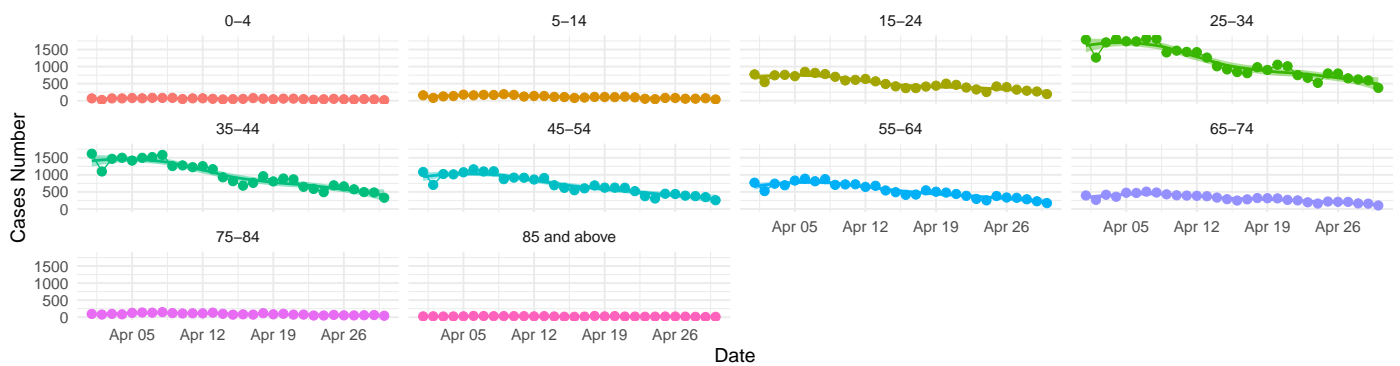
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of confirmed Cases By Age in April 2021

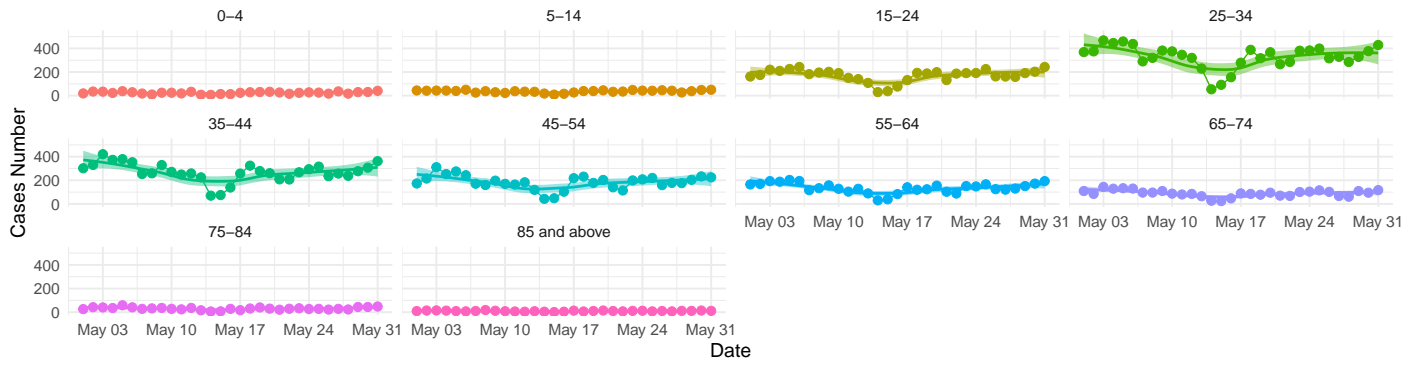
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

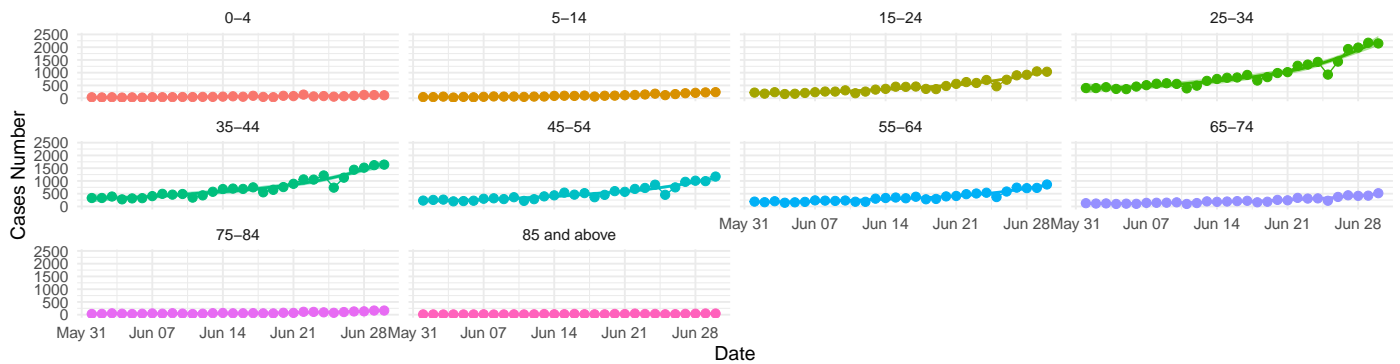
## Number of confirmed Cases By Age in May 2021

Data Source: dghs.gov.bd



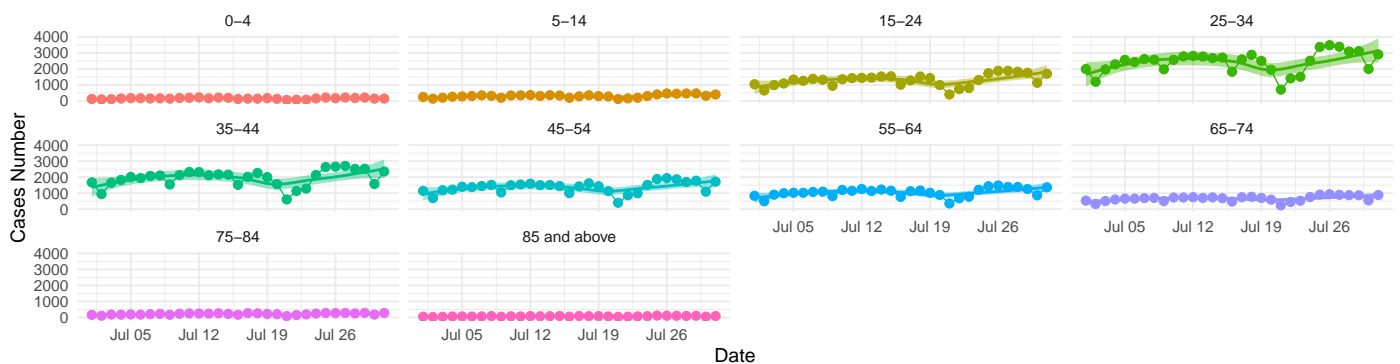
## Number of confirmed Cases By Age in June 2021

Data Source: dghs.gov.bd



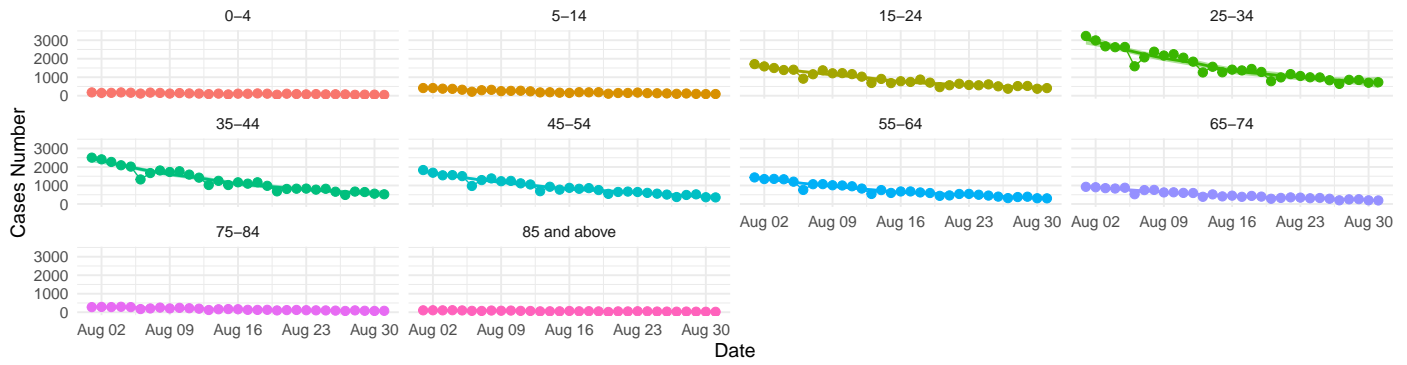
## Number of confirmed Cases By Age in July 2021

Data Source: dghs.gov.bd



## Number of confirmed Cases By Age in August 2021

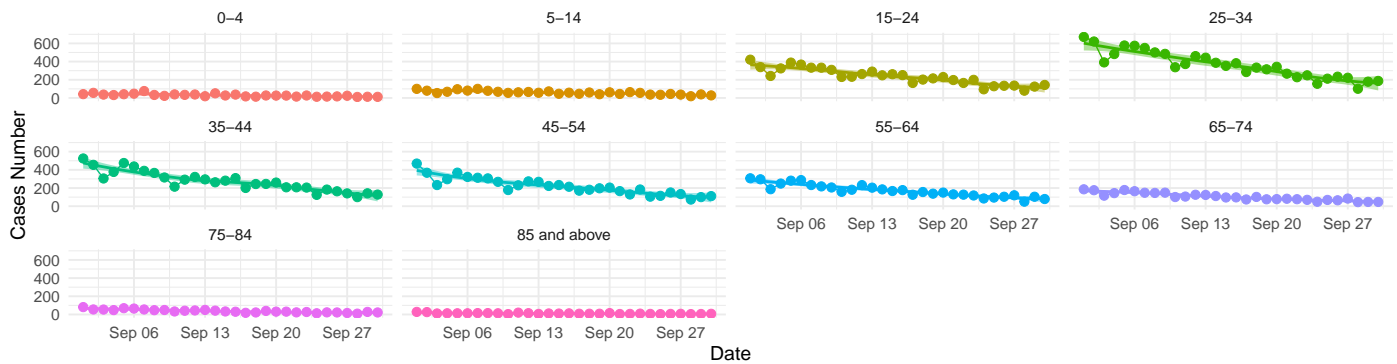
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of confirmed Cases By Age in September 2021

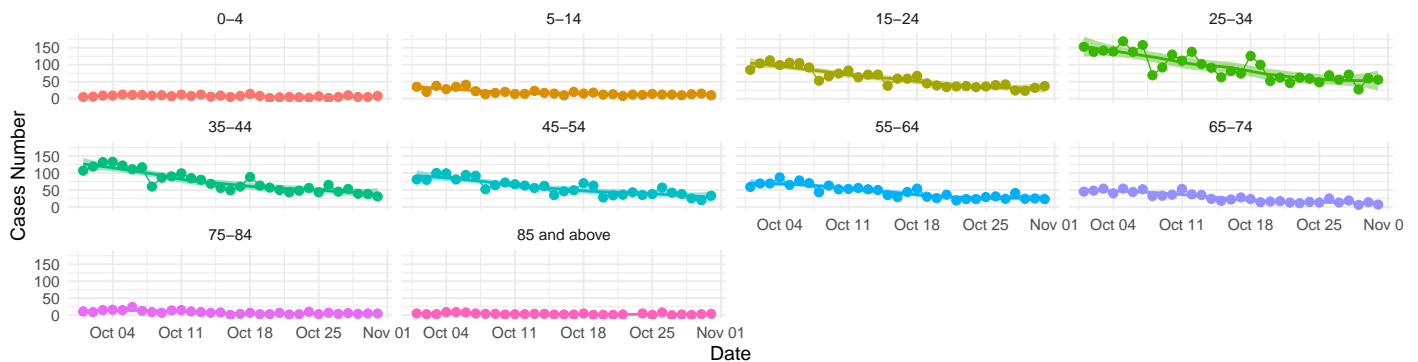
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of confirmed Cases By Age in October 2021

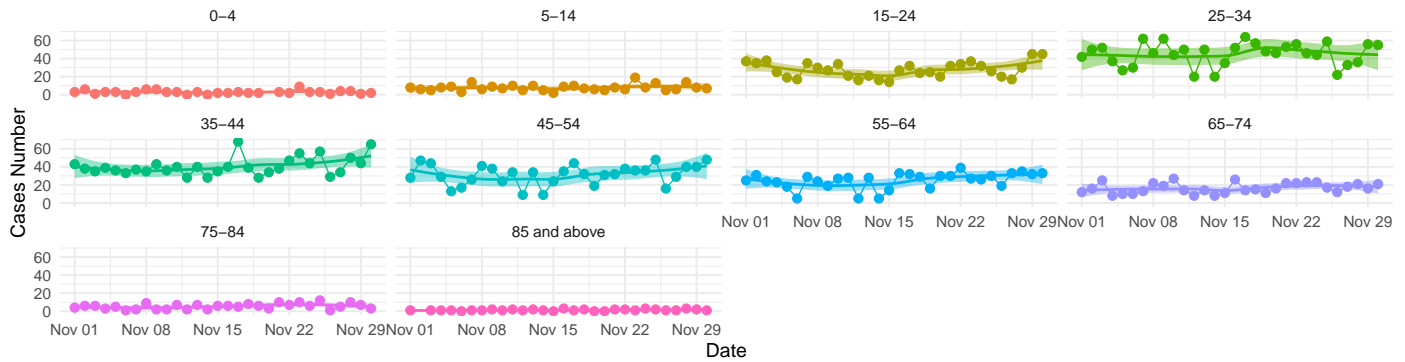
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

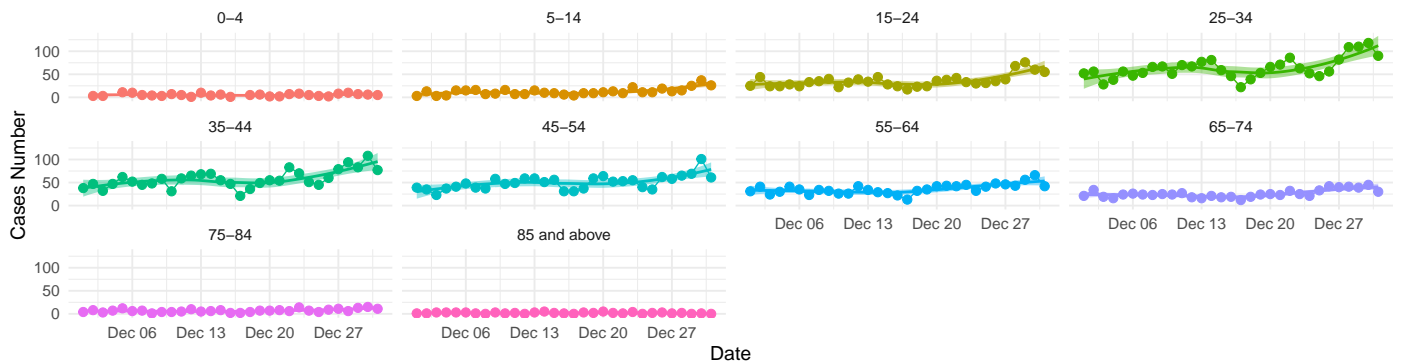
## Number of confirmed Cases By Age in November 2021

Data Source: dghs.gov.bd



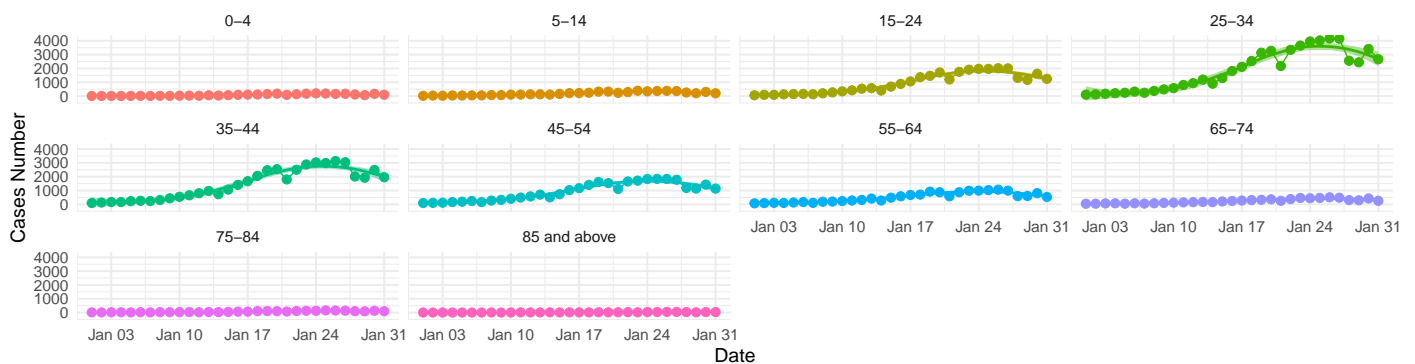
## Number of confirmed Cases By Age in December 2021

Data Source: dghs.gov.bd



## Number of confirmed Cases By Age in January 2022

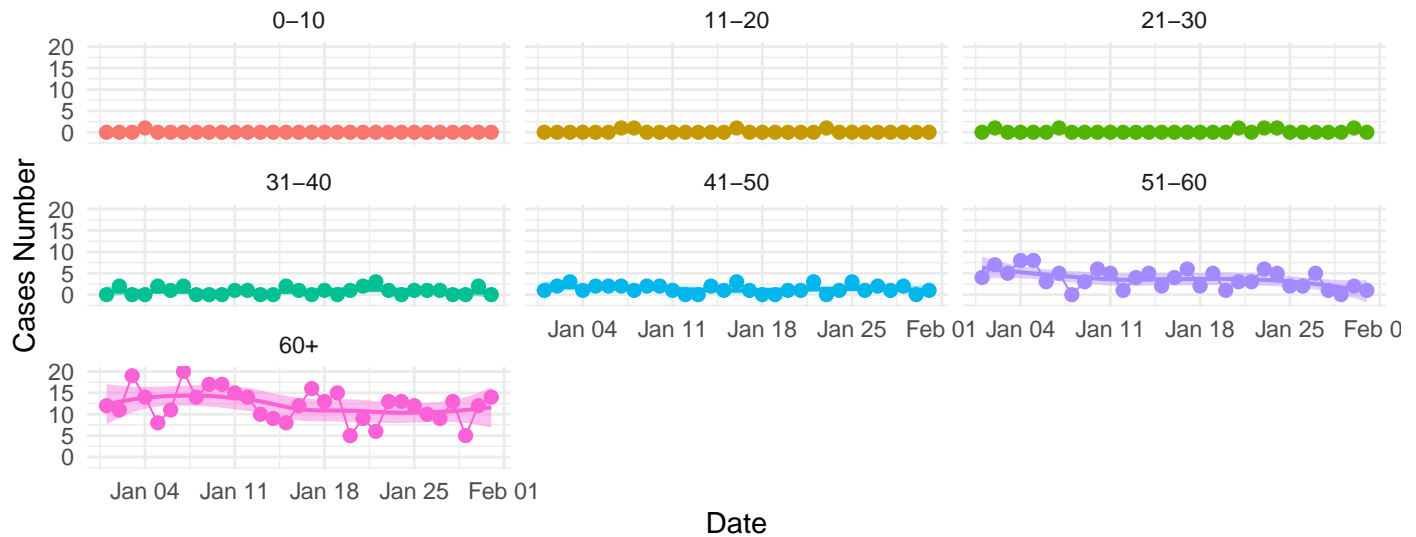
Data Source: dghs.gov.bd



## Daily Death Age Situation in 2021

## Number of Death Cases By Age in January 2021

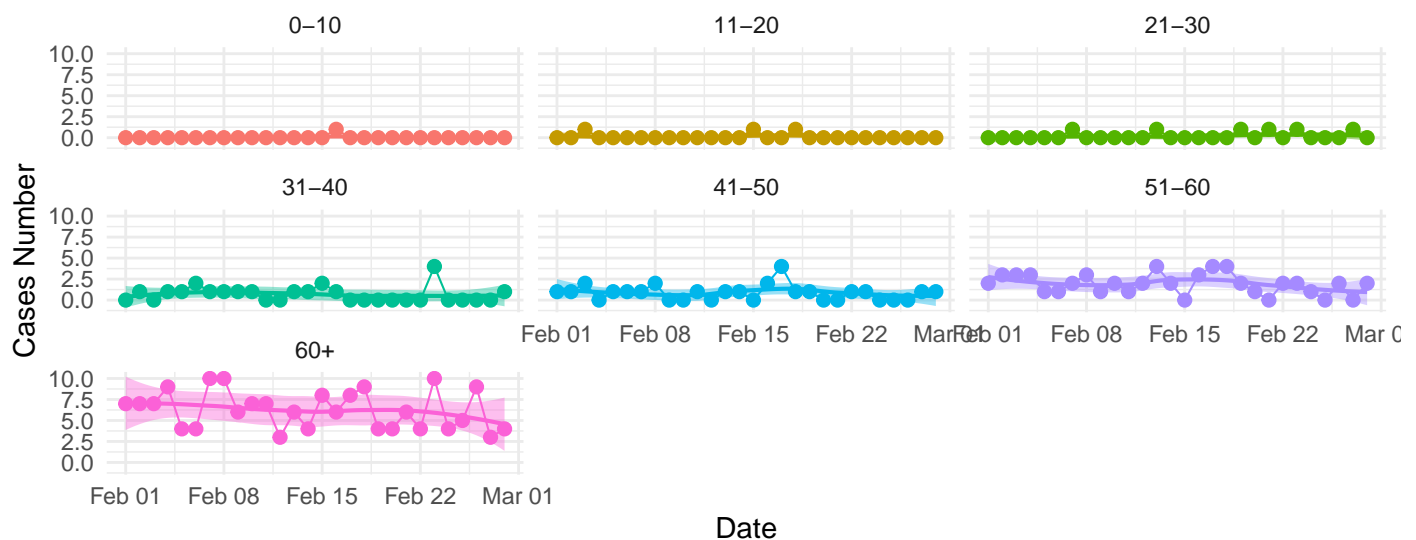
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in February 2021

Data Source: dghs.gov.bd

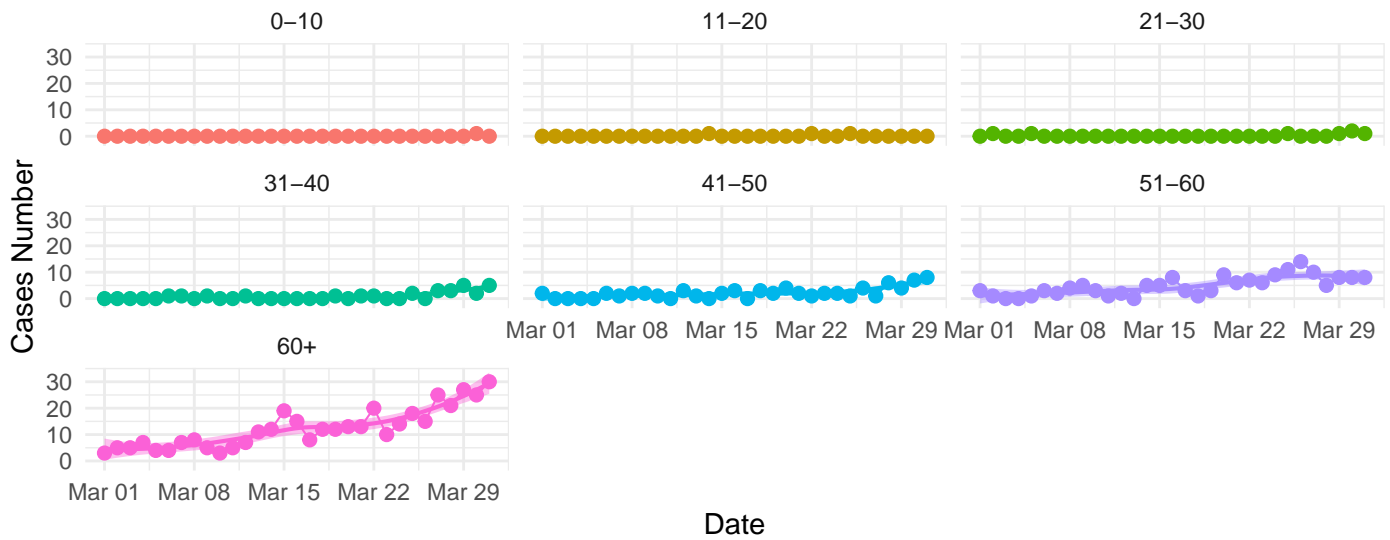


Created by Md. Mahdi Hasan



## Number of Death Cases By Age in March 2021

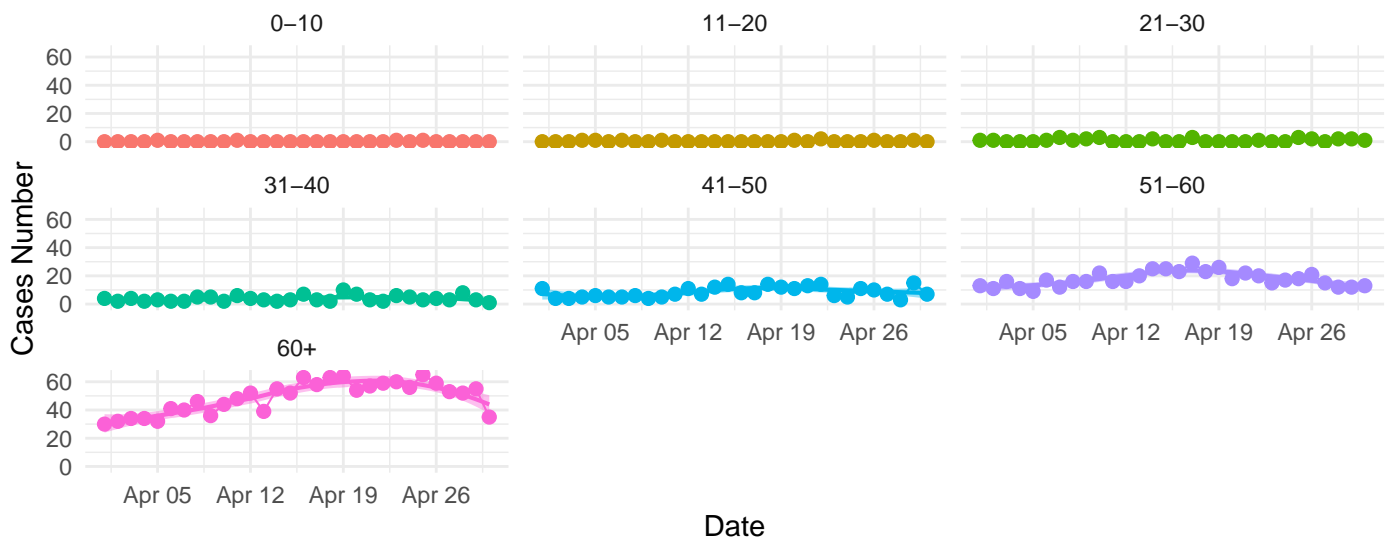
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in April 2021

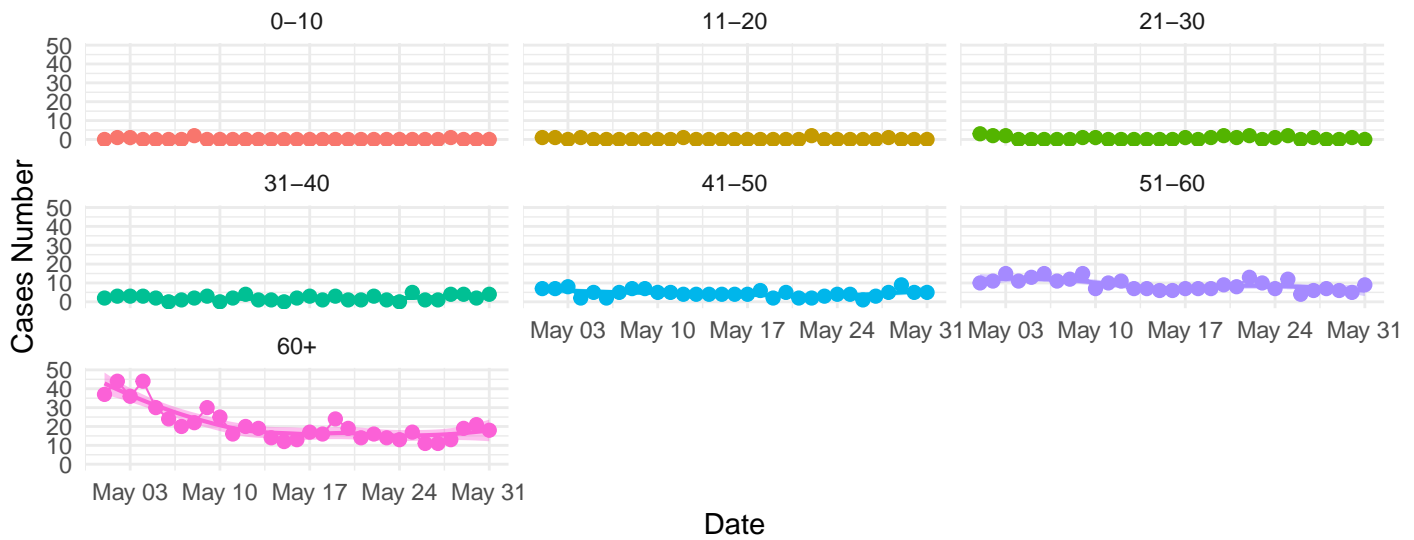
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in May 2021

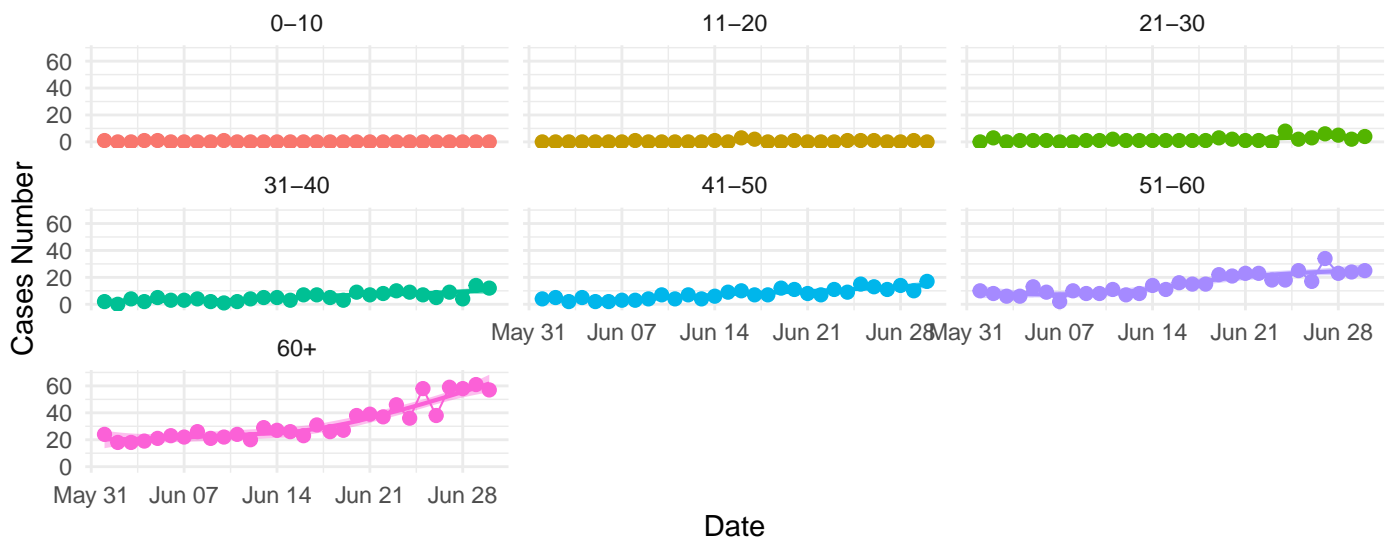
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in June 2021

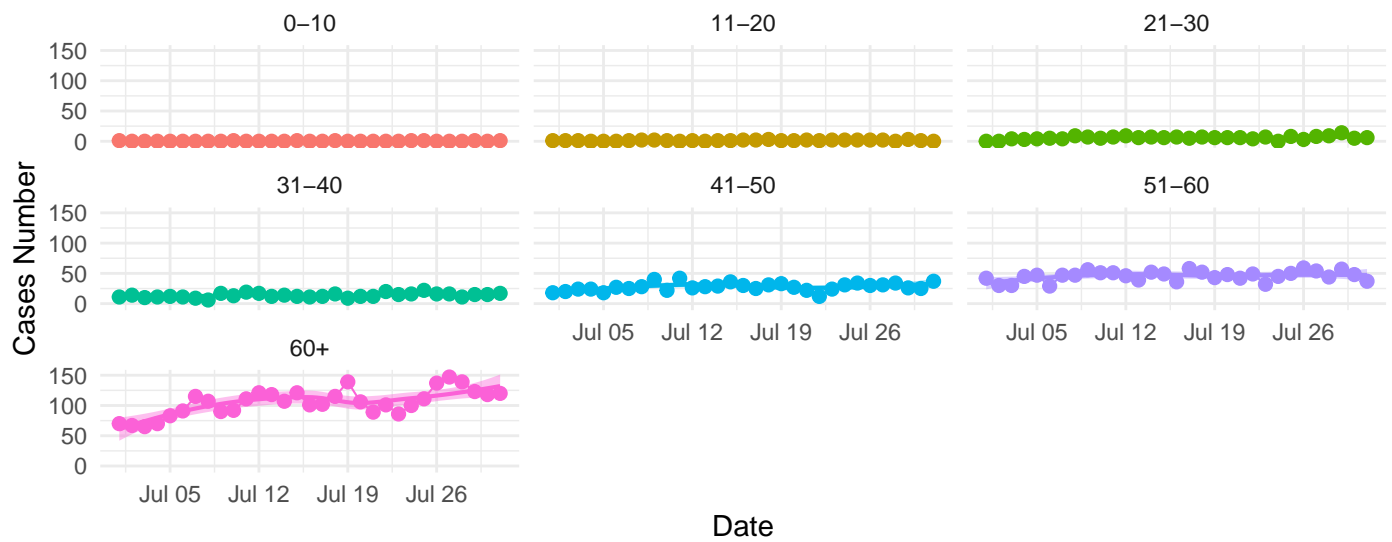
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in July 2021

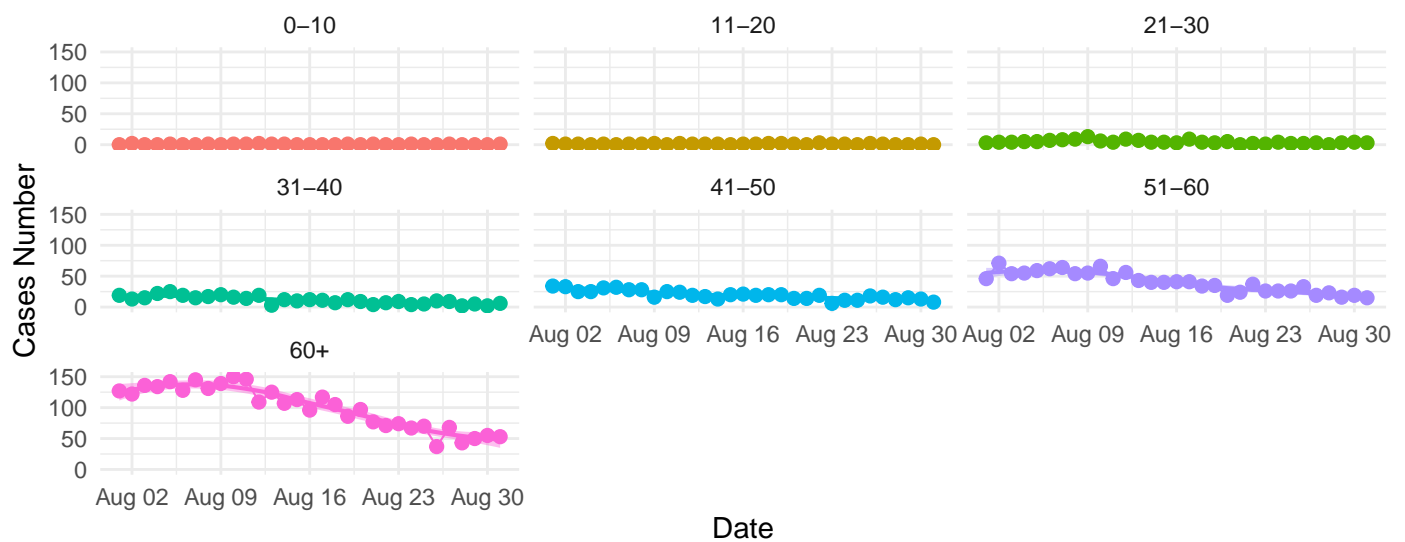
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in August 2021

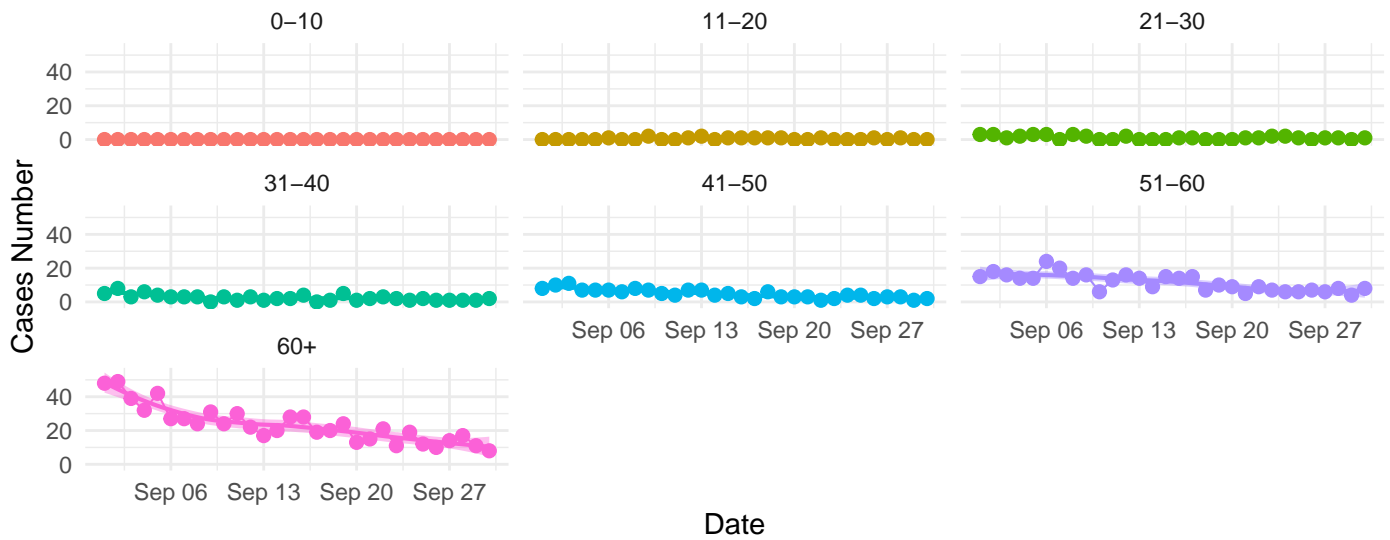
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in September 2021

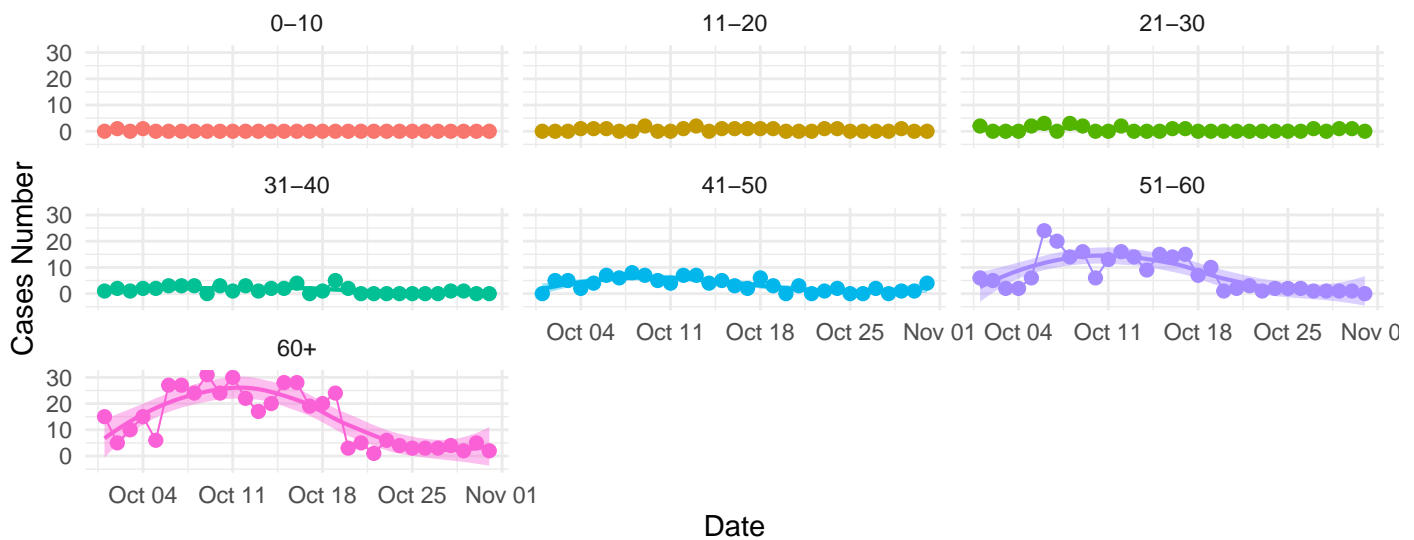
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in October 2021

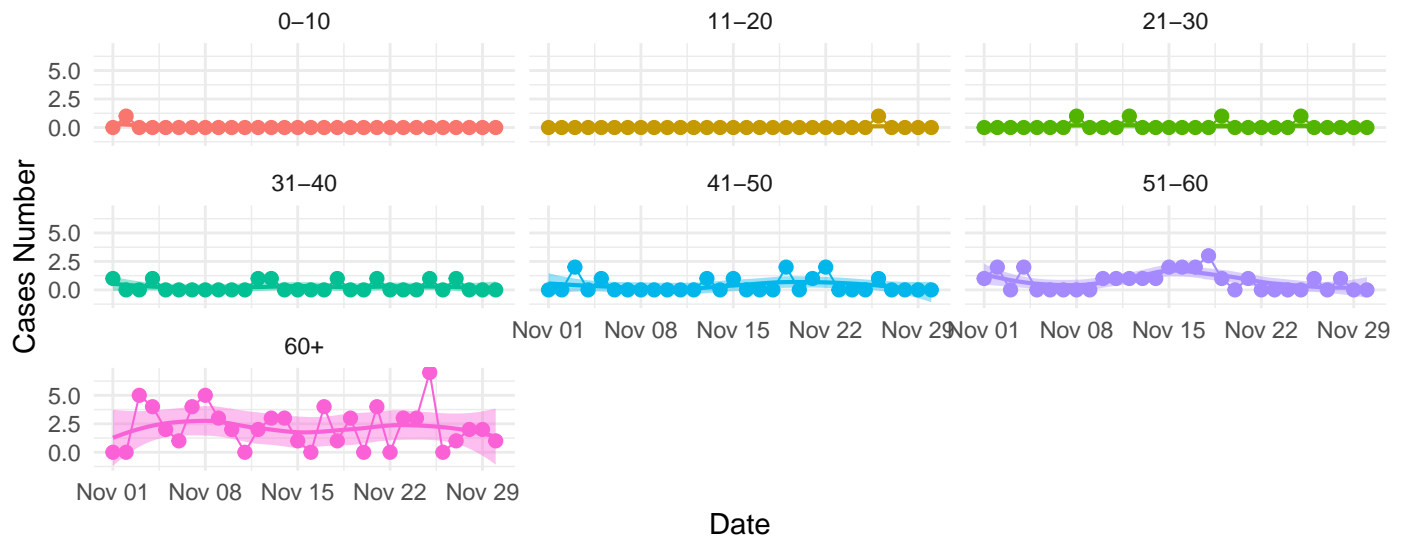
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in November 2021

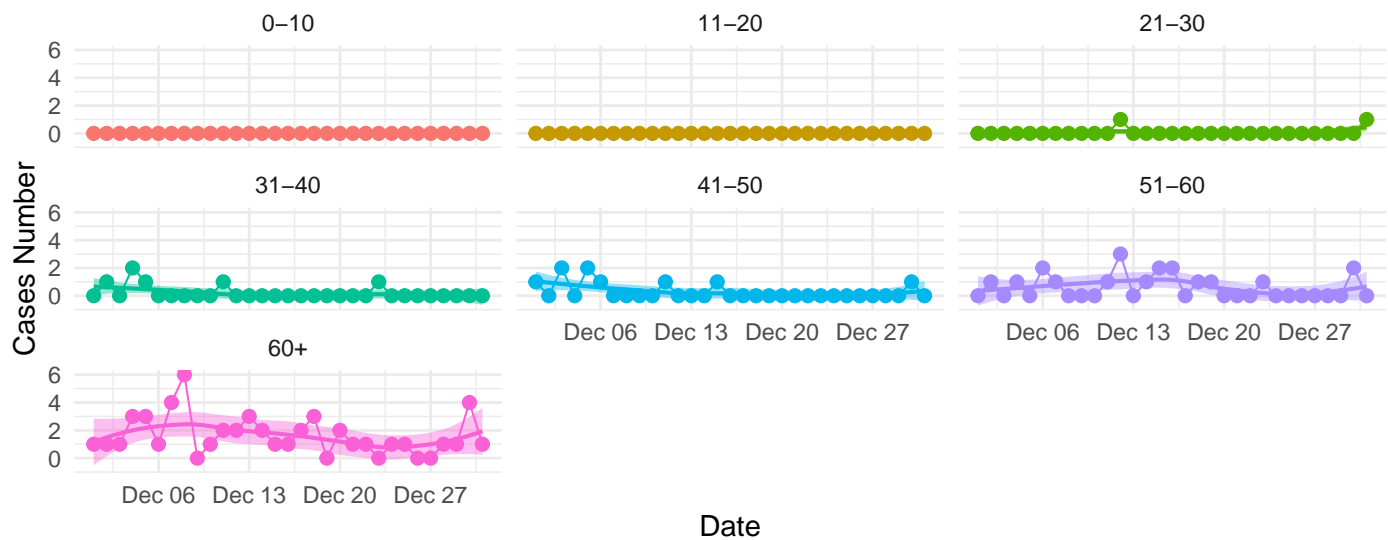
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

## Number of Death Cases By Age in December 2021

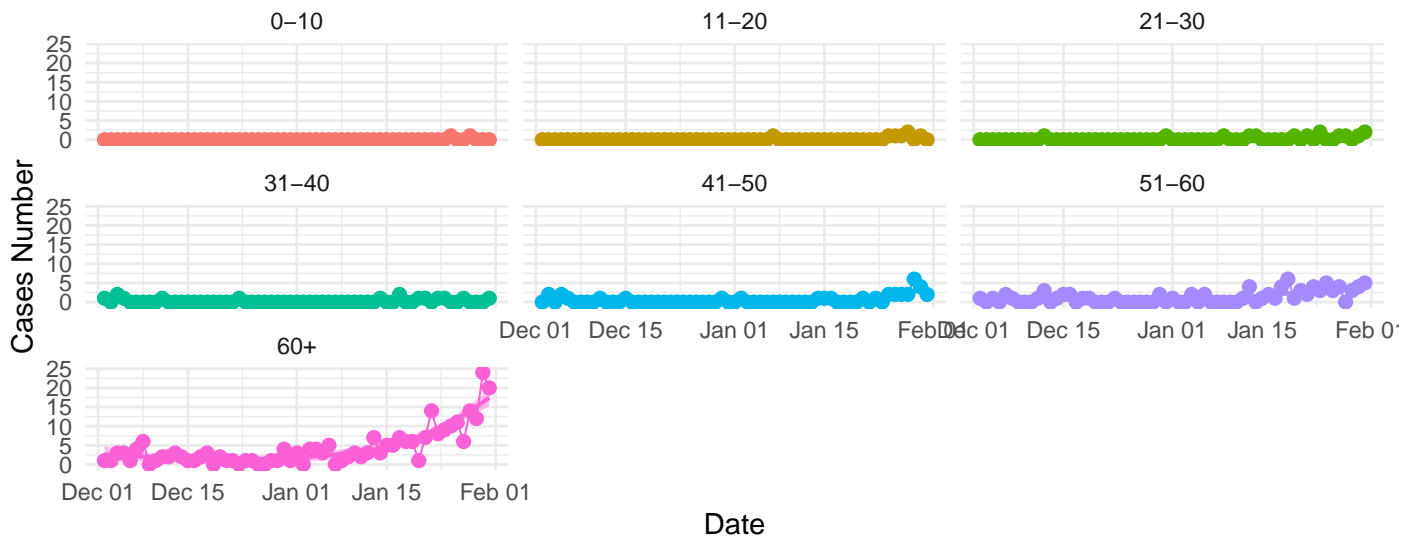
Data Source: dghs.gov.bd



Created by Md. Mahdi Hasan

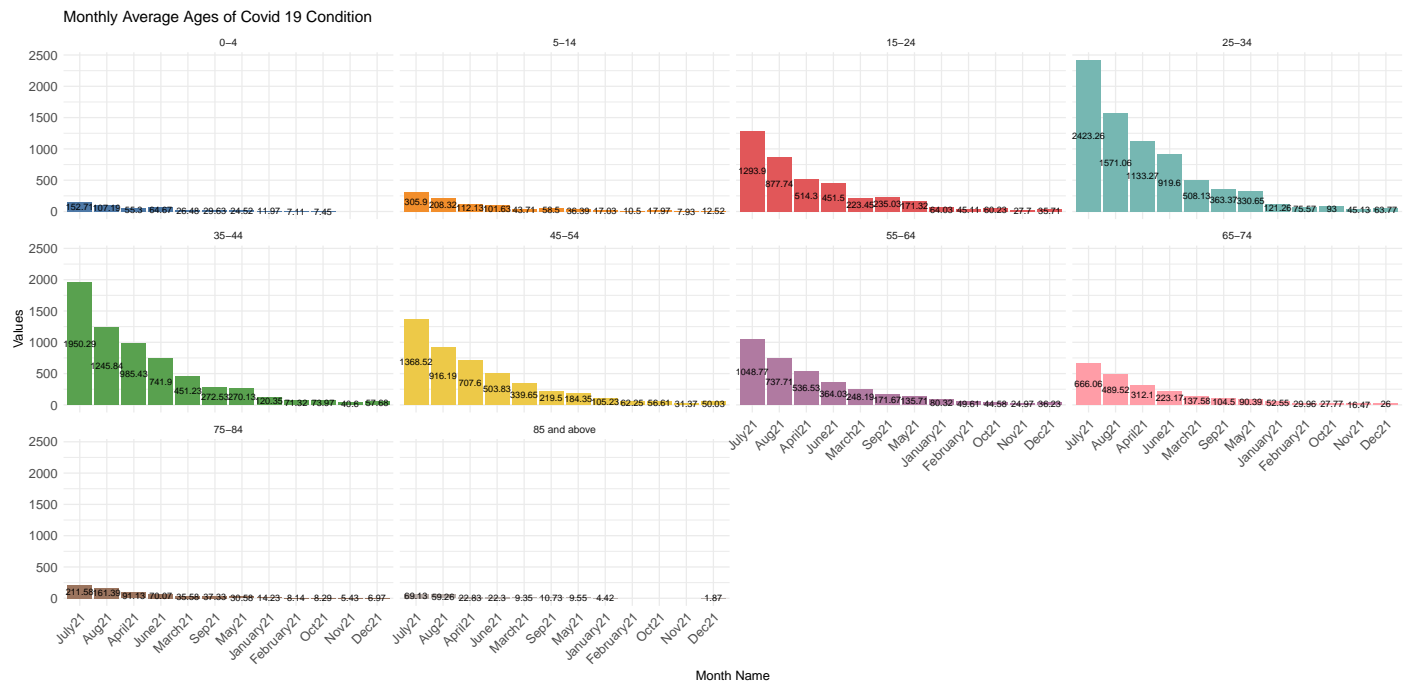
## Number of Death Cases By Age in January 2022

Data Source: dghs.gov.bd



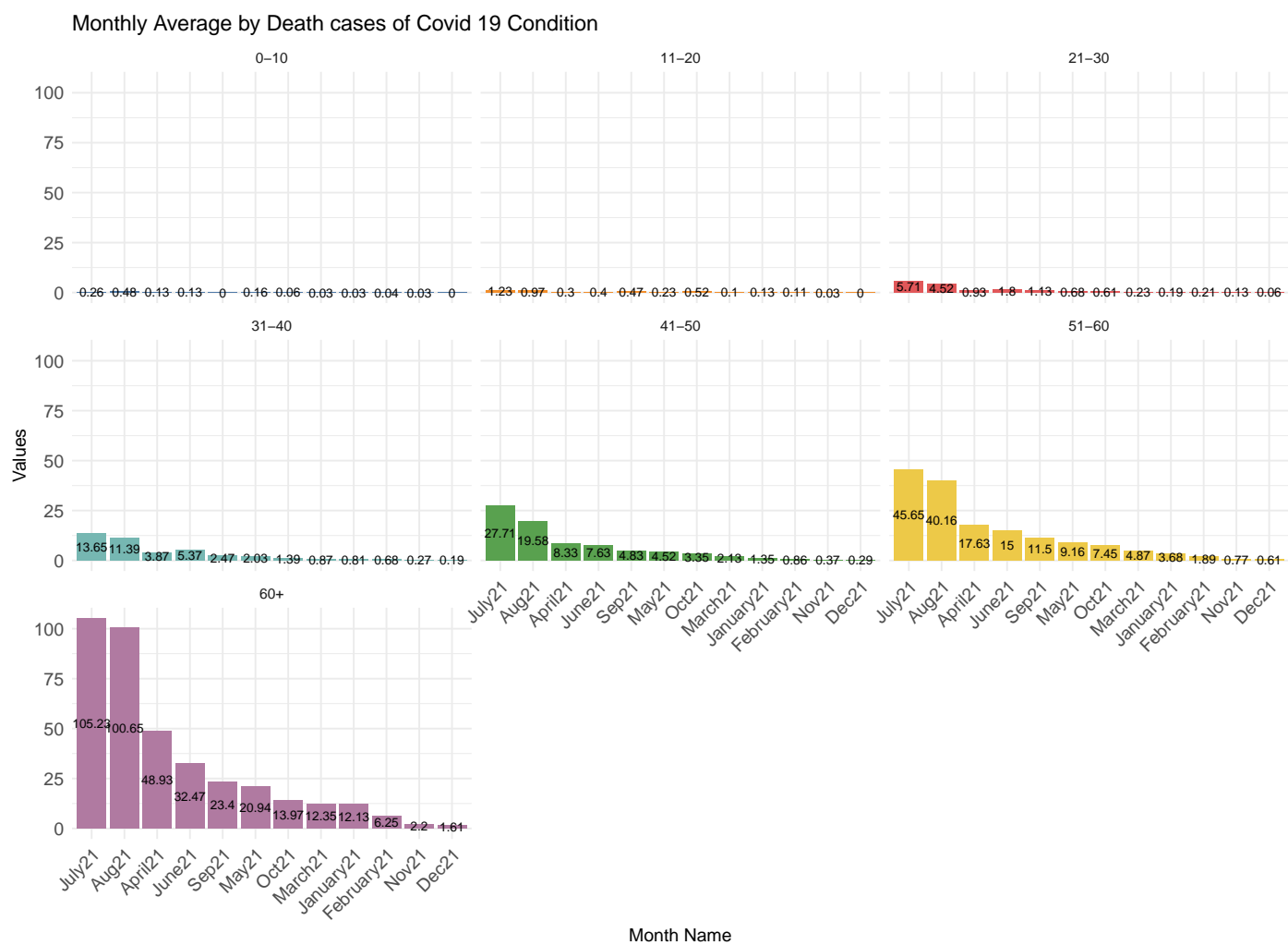
Created by Md. Mahdi Hasan

## Average Ages Confirmed



Data Source: <http://dghs.gov.bd>

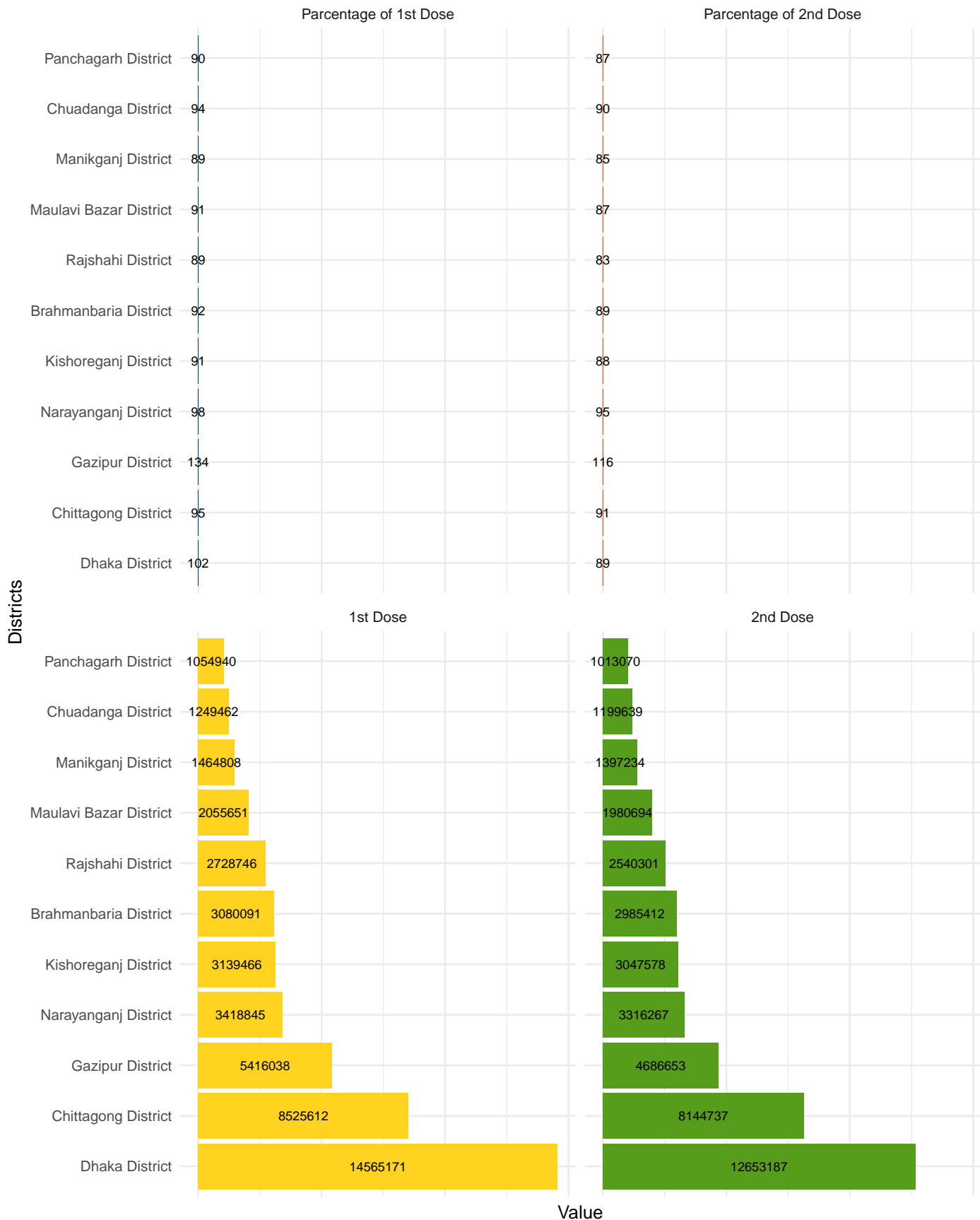
# Average Ages Death

Data Source: <http://dghs.gov.bd>

# Vaccine Situation in Bangladesh

## COVID-19 vaccination in Bangladesh's top districts

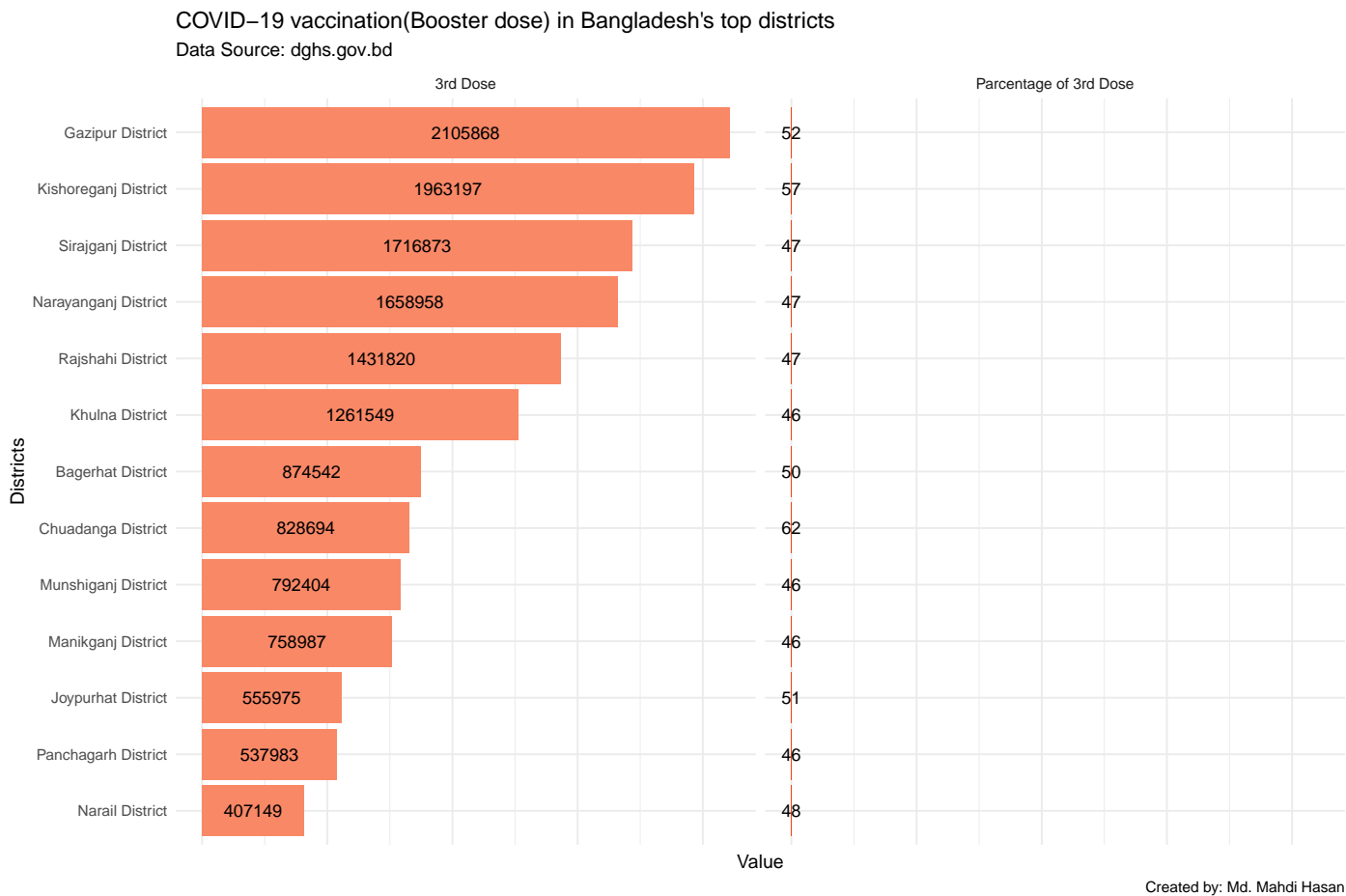
Data Source: dghs.gov.bd





**Comment:** From the above plot we see that, the highest population among the 64 districts is Gazipur District, the **Total Population**, **1st dose**, and **2nd dose**, **Percentage of 1st dose** and **Percentage of 2nd dose** are 4034820, 5416038, 4686653, 134% and 116%

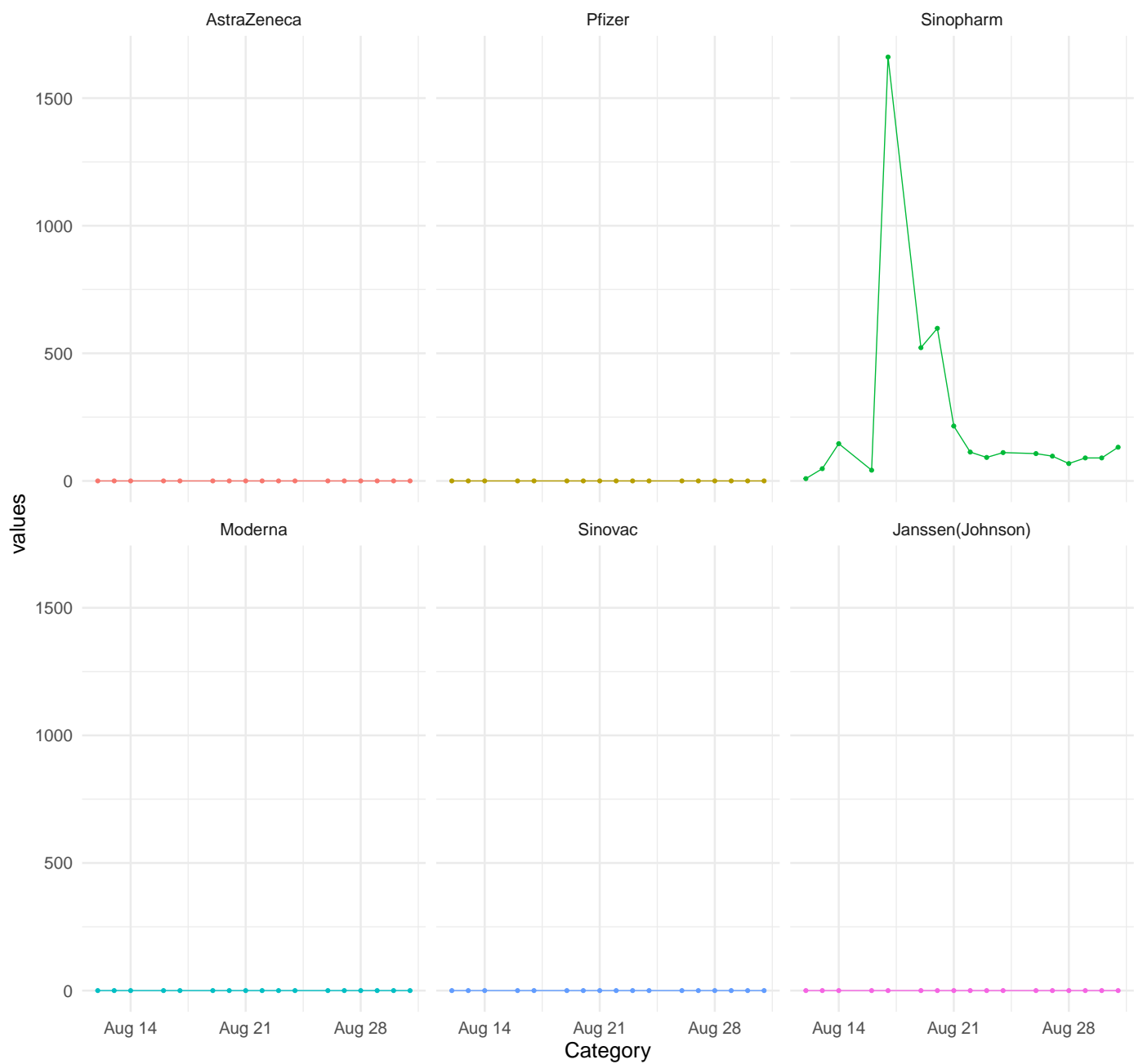
## booster dose situation in Bangladesh



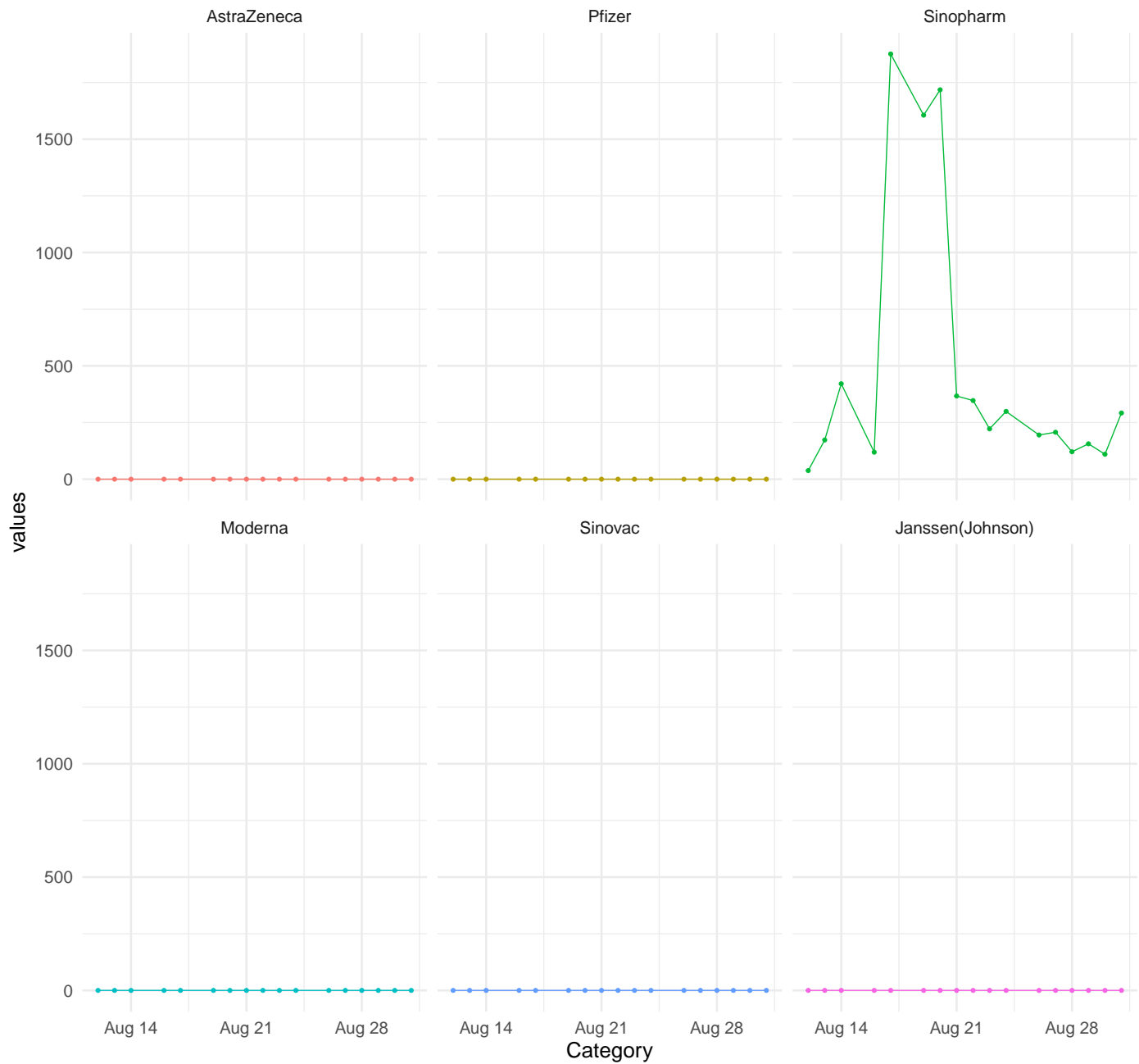
**Comment:** From the above plot we see that, the highest portion among the 64 districts is Gazipur District, the **Total Booster Dose** is 2105868 ,and the percentage of the total population is 52%

# Vaccine Companies in Bangladesh

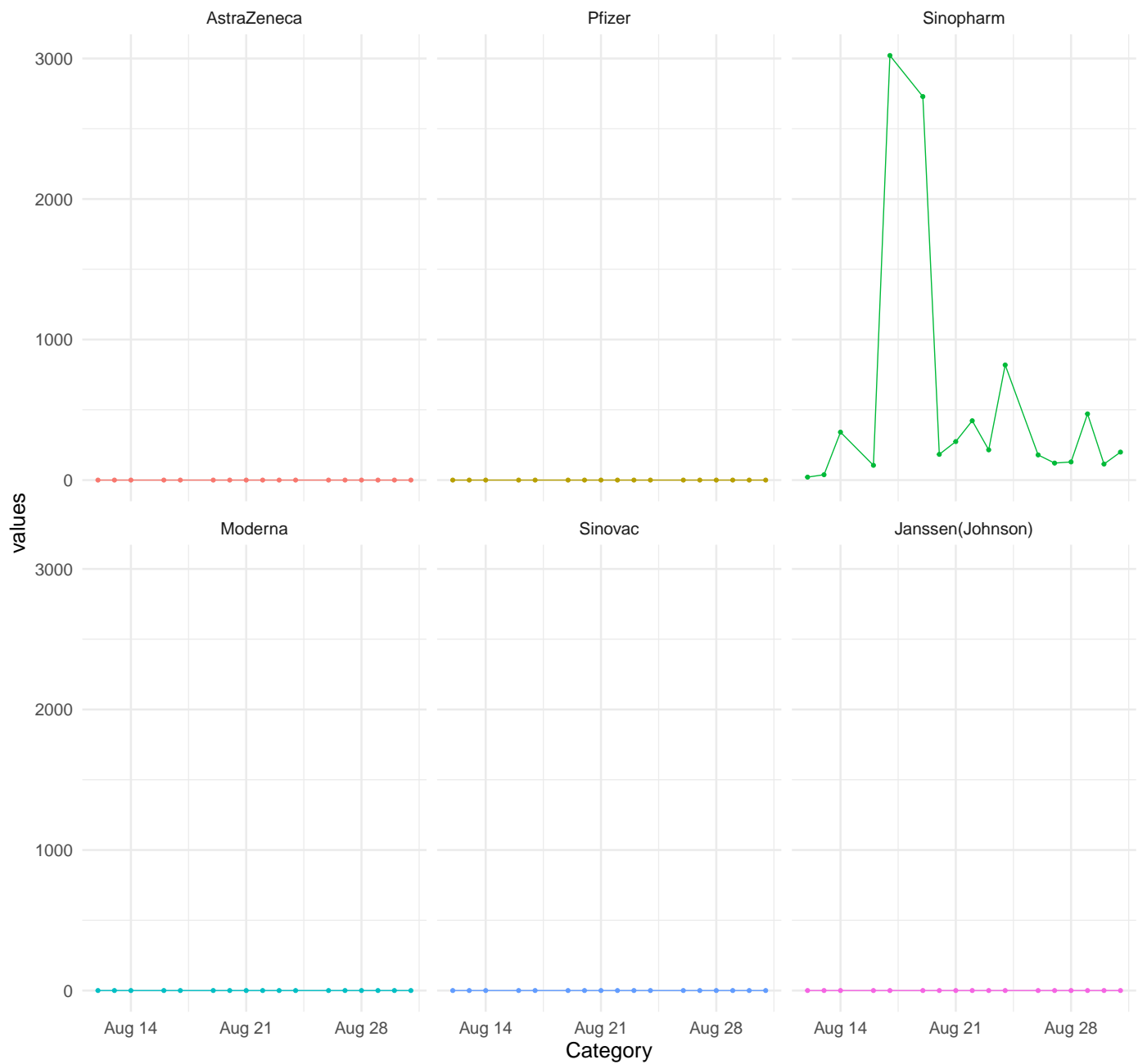
All vaccine 1st dose(Aug 2023) administered over time  
Source: <http://DGHS.gov.bd>



## All vaccine 2nd(Aug 2023) dose administered over time

Source: <http://DGHS.gov.bd>

## All vaccine 3rd dose(Aug 2023) administered over time

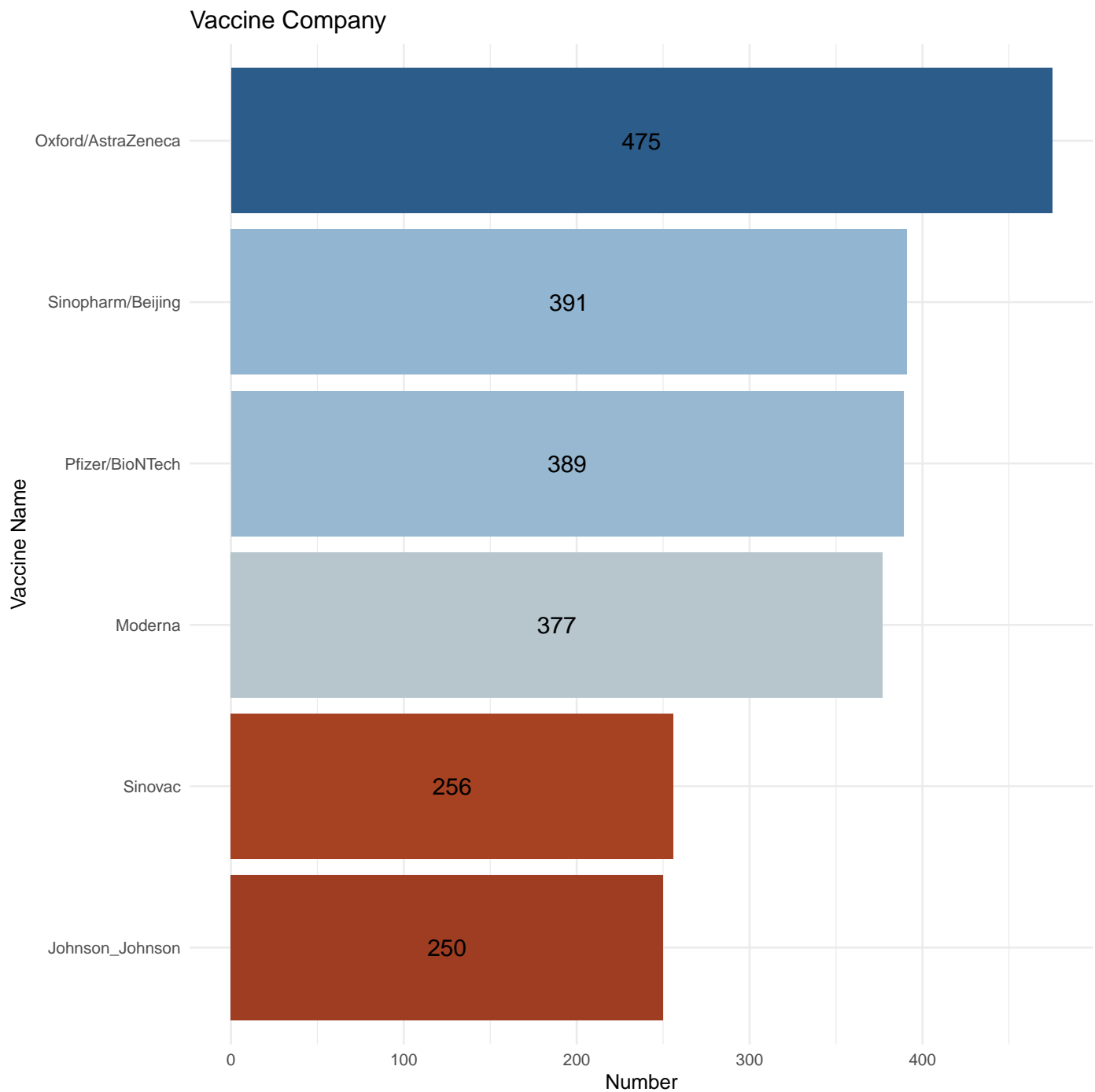
Source: <http://DGHS.gov.bd>

## Vaccine total Situation

Table 11: Vaccine company

Vaccines	Frequency	Percentage
Oxford/AstraZeneca	475	100
Sinopharm/Beijing	391	82
Pfizer/BioNTech	389	82
Moderna	377	79
Sinovac	256	54

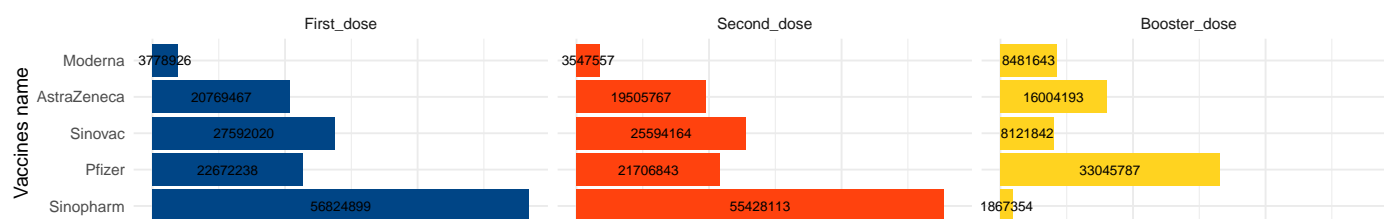
Vaccines	Frequency	Percentage
Johnson_Johnson	250	53



## Vaccine Summary of Covid 19 Bd

### Vaccine Summary of Covid 19

Data Source: <http://103.247.238.92/webportal/pages/covid19-vaccination-update.php>

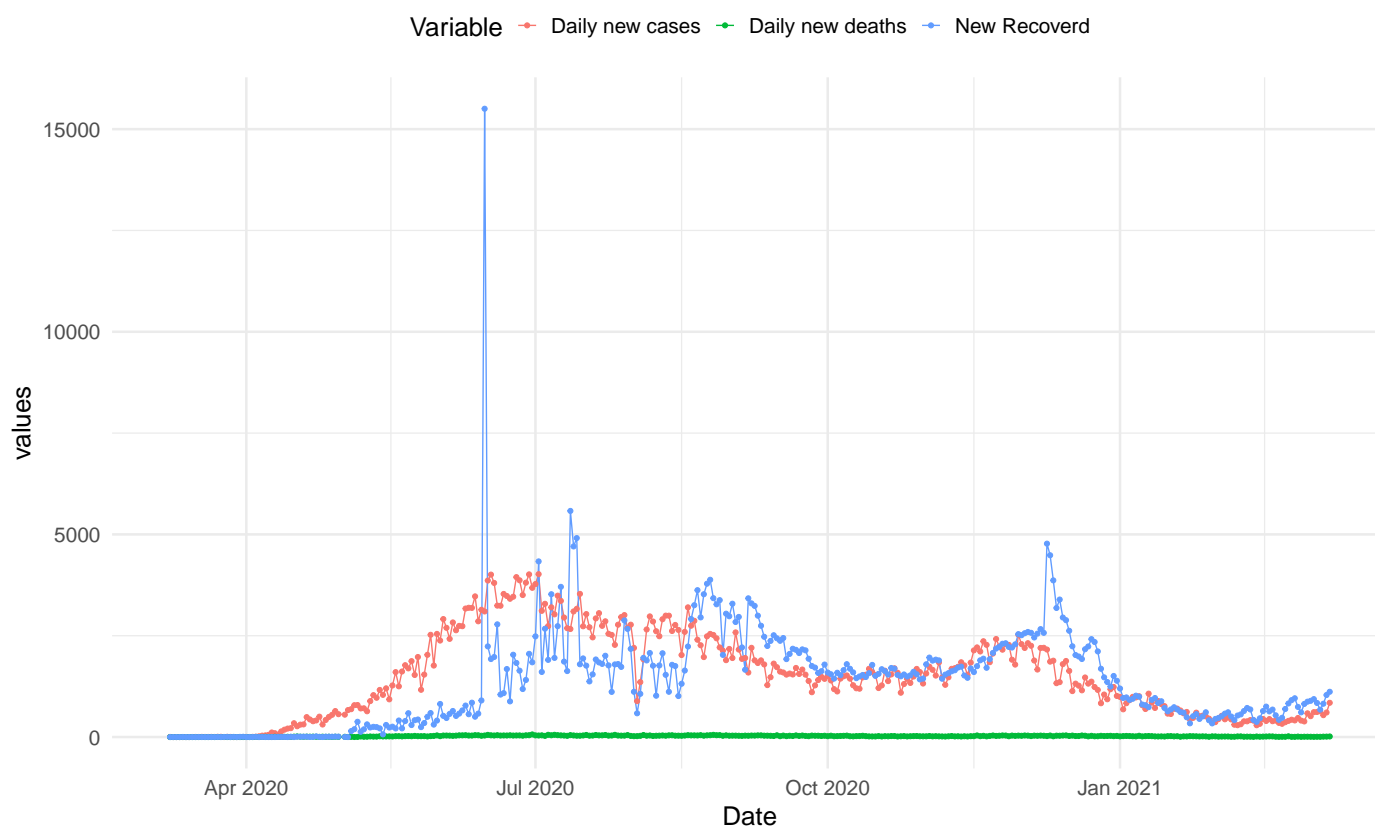


Created by: Md. Mahdi Hasan

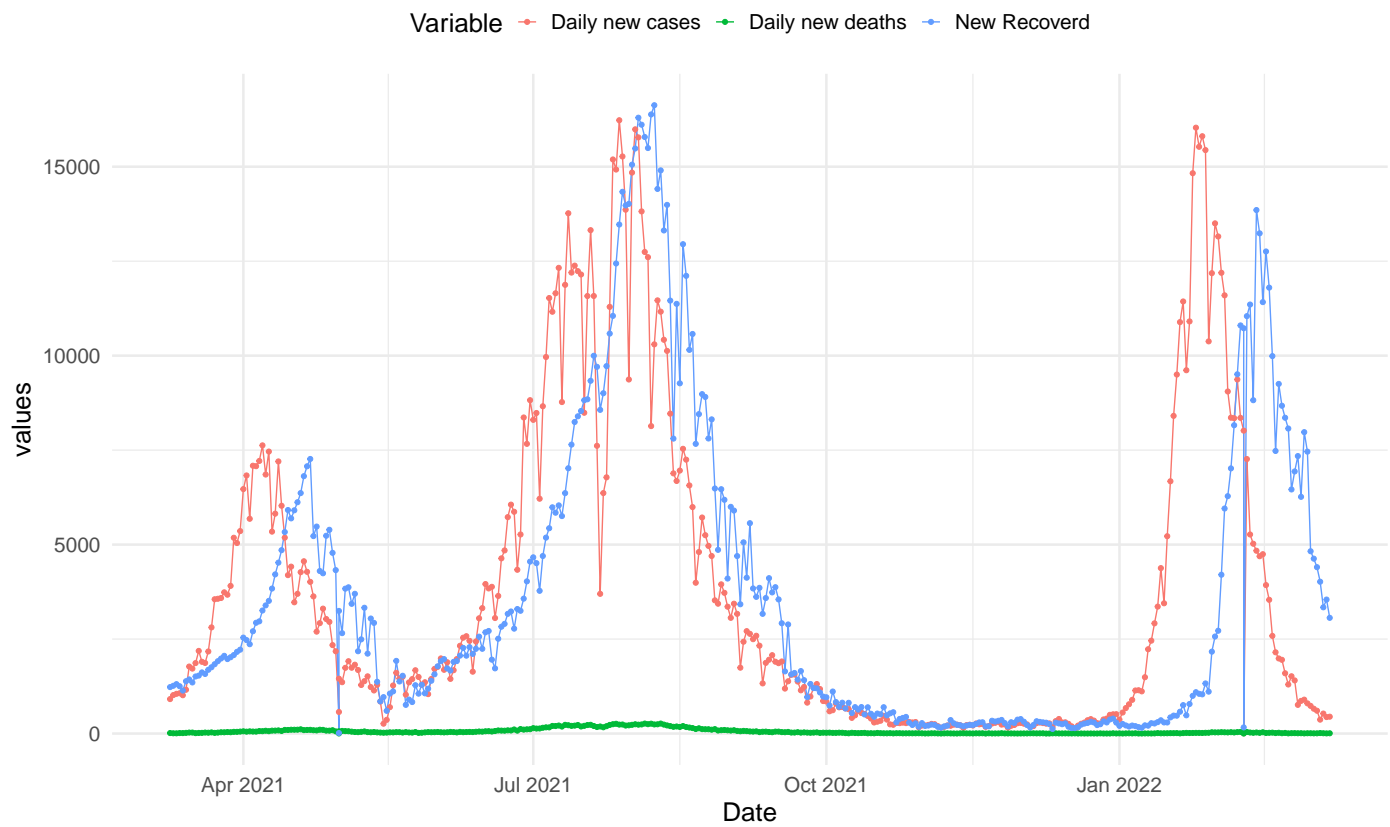
## 3 years of covid 19

### COVID-19 Cases in First Year of Pandemic

Source: <http://DGHS.gov.bd>



## COVID-19 Cases in Second Year of Pandemic

Source: <http://DGHS.gov.bd>

## COVID-19 Cases in third Year of Pandemic

Source: <http://DGHS.gov.bd>