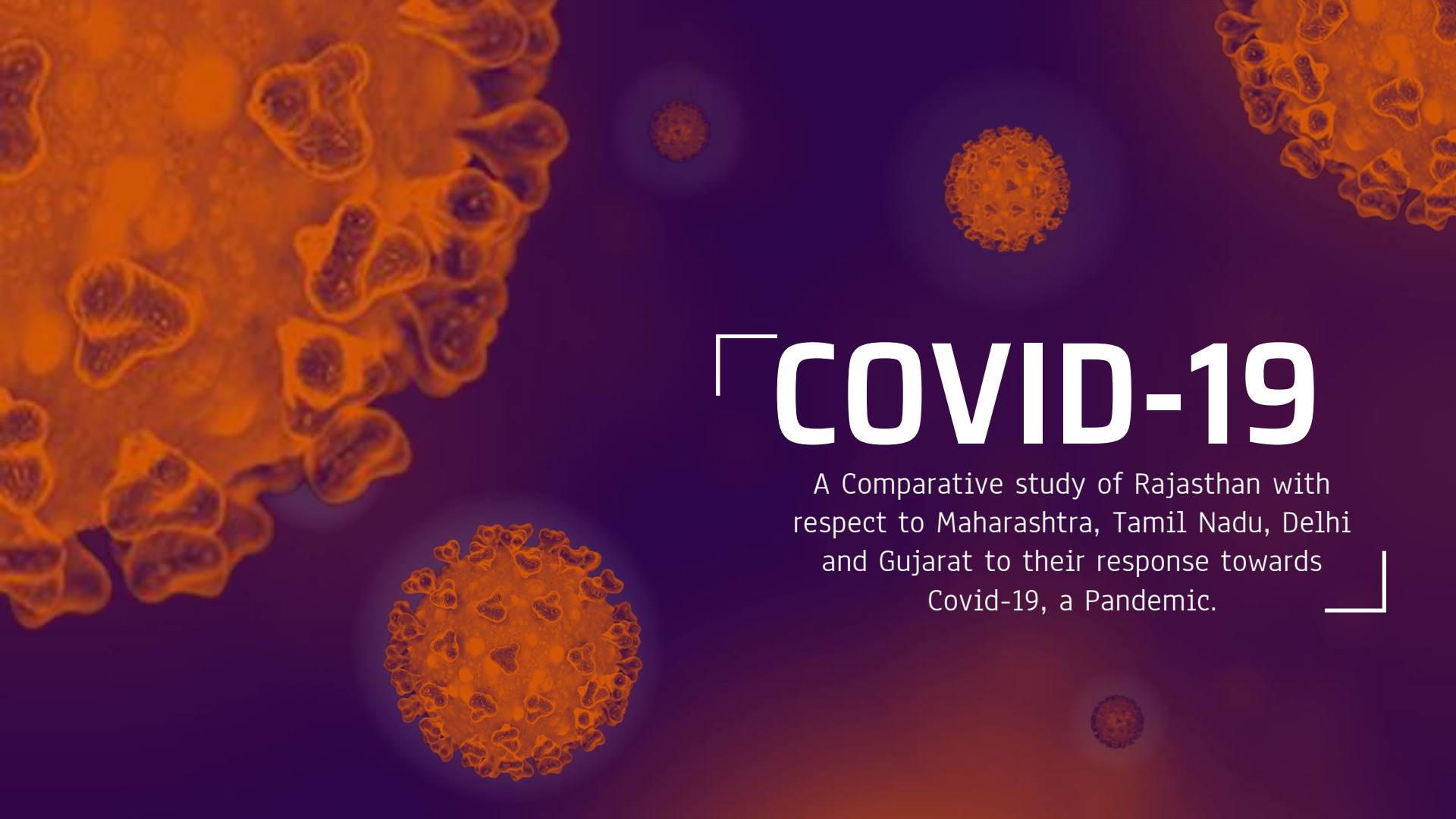
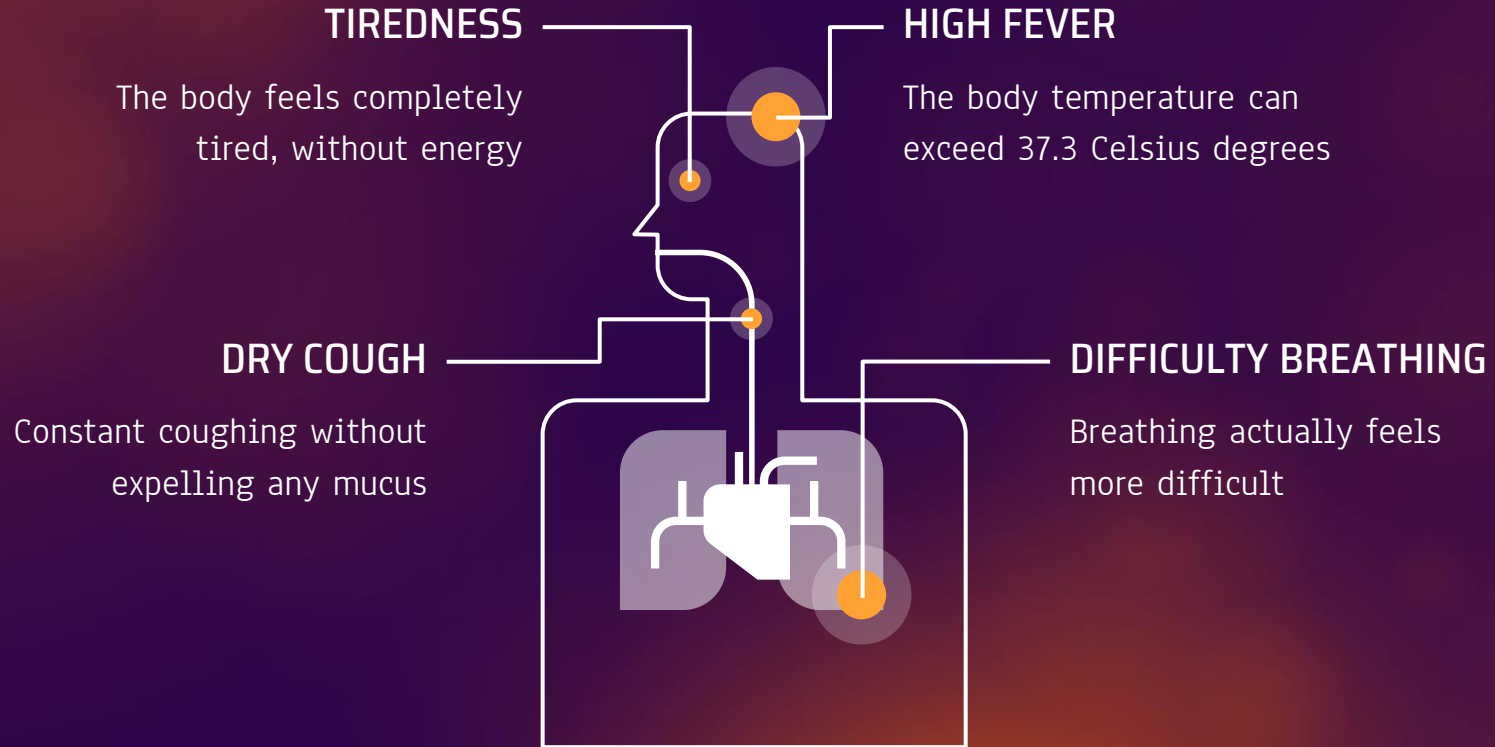




COVID-19

A Comparative study of Rajasthan with respect to Maharashtra, Tamil Nadu, Delhi and Gujarat to their response towards Covid-19, a Pandemic.

WHAT A COVID-19 PATIENT FEELS



HOW INDIA IS DEALING WITH COVID-19



01.

MAHARASHTRA

Has the highest number of confirmed cases

02.

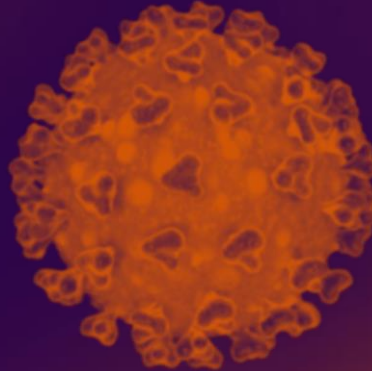
4th POSITION

With respect to Covid-19 confirmed cases all over the world

03.

8th POSITION

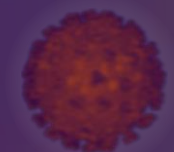
With respect to deaths due to Covid-19 all over the world.



As of 20 June 2020

SOURCE- WHO Covid-19 Dashboard

- From Epidemic to a Pandemic, Outbreak of novel Coronavirus that is technically termed as Covid-19 has originated from the Wuhan City of Hubei Province of China and is rapidly infecting the other parts of the world.
- India reported its first case on 30th January 2020 in Kerala, who was a student returned from Wuhan. With no significant rise in the month of February, new cases started coming under the limelight from 4th March onwards. Government, as a result has imposed immediate travel restrictions, sealed the borders, Janta Curfews to a lockdown that was “tough and timely” as stated by WHO. These interventions have reduced the spread to a great extent when compared with the other countries.
- The Prime Minister’s office and MOHFW are closely monitoring the situation and intensifying preparedness and response efforts.
- Rajasthan reported its index case on 2nd March in its capital, Jaipur. Till 30th April, 2584 were confirmed cases with 58 deceased.



INTRODUCTION

LOCKDOWN

Lockdown 1.0

25th March-14th April

01

Lockdown 2.0

15th April-3rd May

02

Lockdown 3.0

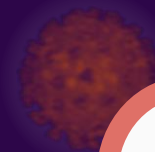
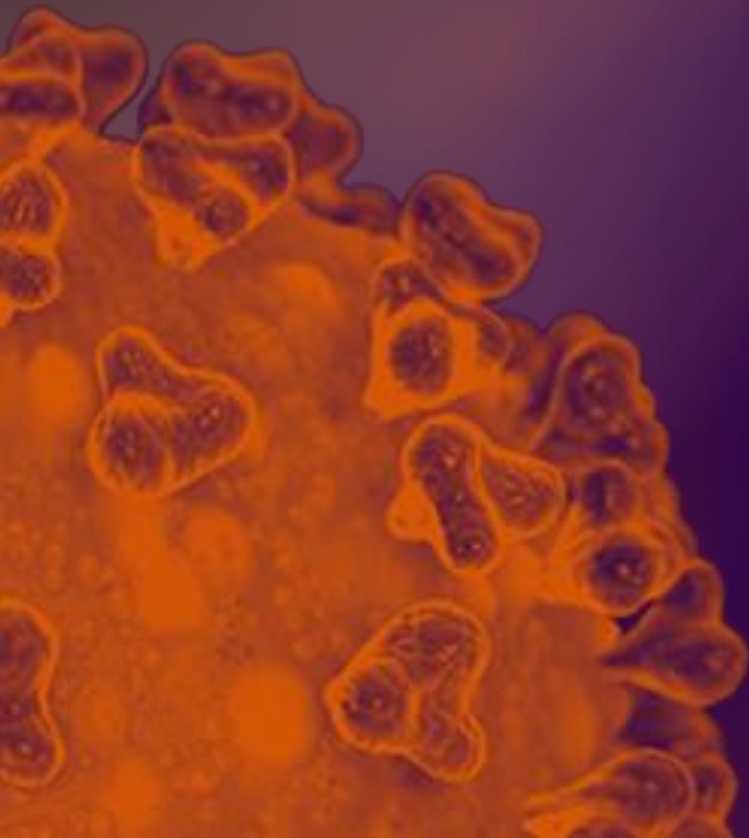
4th May-17th May

03

Lockdown 4.0

18th May- 31st May

04

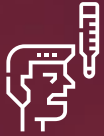


RATIONALE



MOHFW data implies that states/UT including **Maharashtra, Delhi, Tamil Nadu, Gujarat and Rajasthan** comes under the top 5, having highest number of coronavirus confirmed cases. So this study is done as a comparative study of Rajasthan with respect to Maharashtra, Tamil Nadu, Delhi and Gujrat to their response towards Covid-19.

RESEARCH QUESTION



How Rajasthan is responding to the Covid-19 outbreak with respect to the other states/UT with highest number of confirmed cases?



OBJECTIVES



- 1 To assess the confirmed cases in the specified states/UT.
- 2 To assess the confirmed cases per million in the specified states/UT.
- 3 To assess the percentage of infected people in the specified states/UT.
- 4 To assess the recovery rate among the infected population in the specified states/UT.

METHODOLOGY

STUDY DESIGN

Study Type used is **Analytical study**, because here the information that is already available from the reliable sources were taken and then analyzed, to make a critical evaluation.

Inclusion criteria:

Population of top 5 states/UT having highest number of Covid-19 confirmed cases that will include Maharashtra, Delhi, Tamil Nadu, Gujarat, Rajasthan.

Exclusion criteria:

Population of the remaining states/UT.

METHODOLOGY

STUDY DURATION

The study duration was from 11th March to 11th June wherein the data was collected from 25th March to 17th May week-wise and analyzed.

The assessment is done on the basis of 3 lockdown phases as followed

LOCKDOWN	TIME DURATION
1.0	25 th March to 14 th April
2.0	15 th April to 3 rd May
3.0	4 th May to 17 th May

METHODOLOGY

DATA COLLECTION METHOD

Data was collected from the **MOHFW and NHM Websites** of the respective states/UT on the daily basis and analyzed further.

Since the Data was taken at regular basis from the reliable source websites, so it is a **Secondary Data**.

METHODOLOGY

DATA ANALYSIS

Data was analyzed through **MS Excel** Software,
and all the visuals were made from
Tableau Software.

KEY PARAMETERS TAKEN

Increment in confirmed cases

Percentage of infected people

Confirmed cases per million

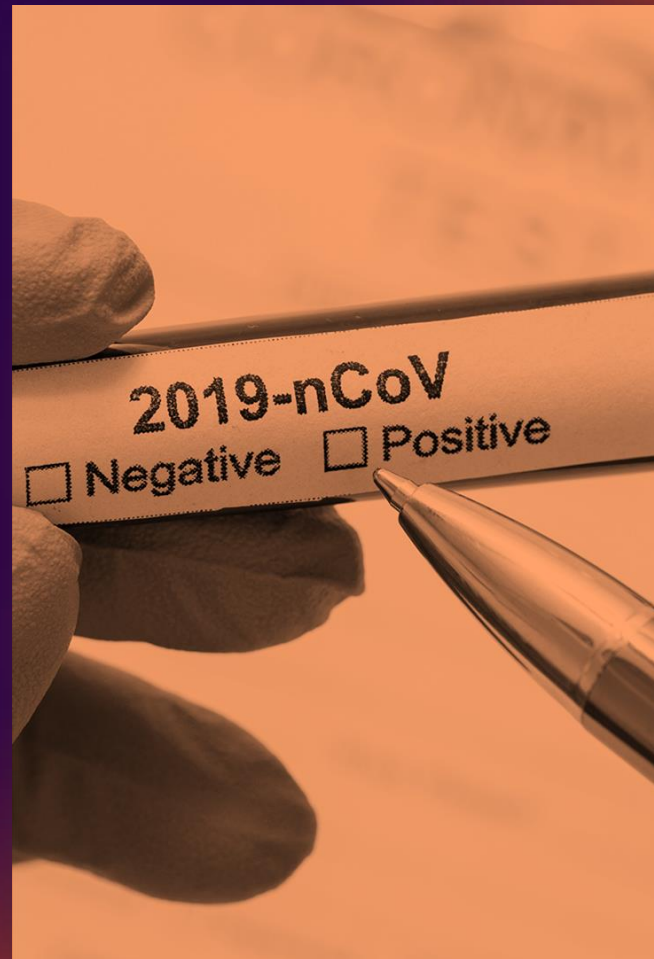


KEY PARAMETERS TAKEN

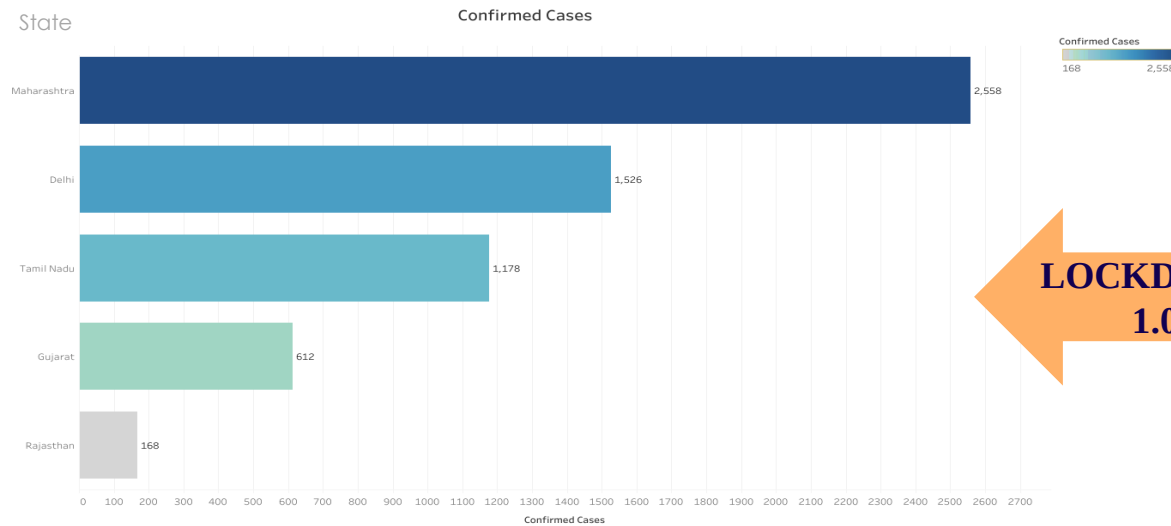
Recovery rate



「 FINDINGS

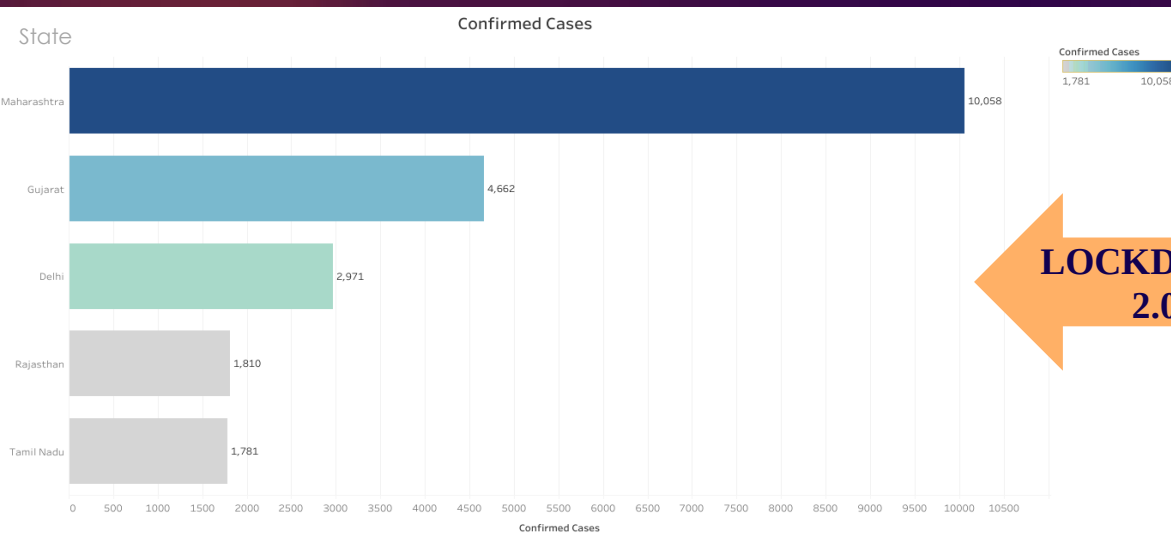


LOCKDOWN 1.0												
Name of the State	Confirmed Cases			Active Cases			Recovered			Deceased		
	25th March	14th April	Increase	25th March	14th April	Increase	25th March	14th April	Increase	25th March	14th April	Increase
Rajasthan	38	206	168	35	180	145	3	25	22	0	1	1
Tamil Nadu	26	1204	1178	24	1111	1087	1	81	80	1	12	11
Delhi	35	1561	1526	28	1500	1472	6	31	25	1	30	29
Gujarat	38	650	612	37	563	526	0	59	59	1	28	27
Maharashtra	122	2680	2558	119	2244	2125	1	259	258	2	177	175
LOCKDOWN 2.0												
Name of the State	Confirmed Cases			Active Cases			Recovered			Deceased		
	15th April	3rd May	Increase	15th April	3rd May	Increase	15th April	3rd May	Increase	15th April	3rd May	Increase
Rajasthan	1076	2886	1810	918	1459	541	147	1356	1209	11	71	60
Tamil Nadu	1242	3023	1781	1110	1614	504	118	1379	1261	14	30	16
Delhi	1578	4549	2971	1505	3123	1618	41	1362	1321	32	64	32
Gujarat	766	5428	4662	669	4096	3427	64	1042	978	33	290	257
Maharashtra	2916	12974	10058	2435	10312	7877	295	2115	1820	186	547	361
LOCKDOWN 3.0												
Name of the State	Confirmed Cases			Active Cases			Recovered			Deceased		
	4th May	17th May	Increase	4th May	17th May	Increase	4th May	17th May	Increase	4th May	17th May	Increase
Rajasthan	3061	5202	2141	1546	2026	480	1438	3045	1607	77	131	54
Tamil Nadu	3550	11224	7674	2110	6973	4863	1409	4172	2763	31	79	48
Delhi	4898	9755	4857	3403	5405	2002	1431	4202	2771	64	148	84
Gujarat	5804	11380	5576	4290	6222	1932	1195	4499	3304	319	659	340
Maharashtra	14541	33053	18512	11494	24168	12674	2465	7688	5223	582	1197	615

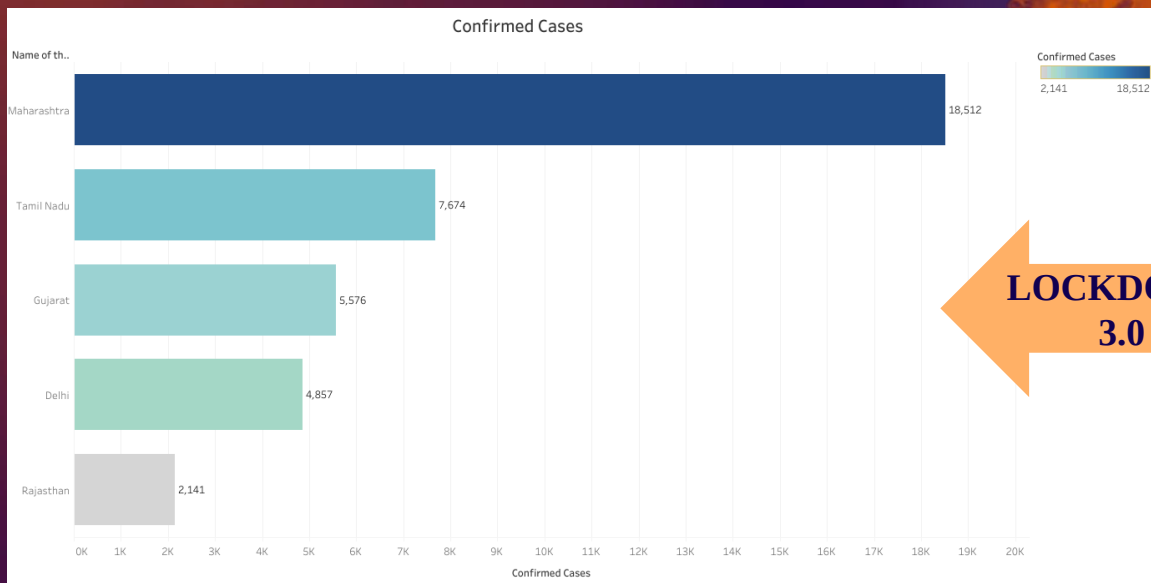


**LOCKDOWN
1.0**

**INCREMENT IN
THE
CONFIRMED
CASES**

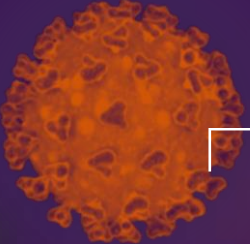


**LOCKDOWN
2.0**

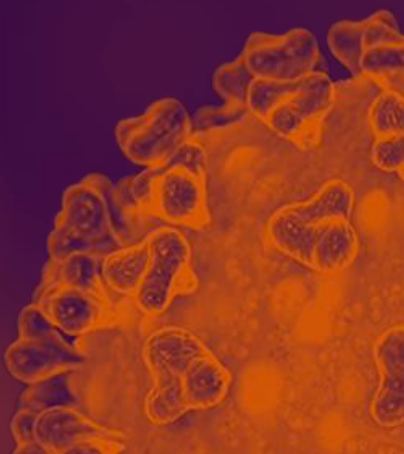


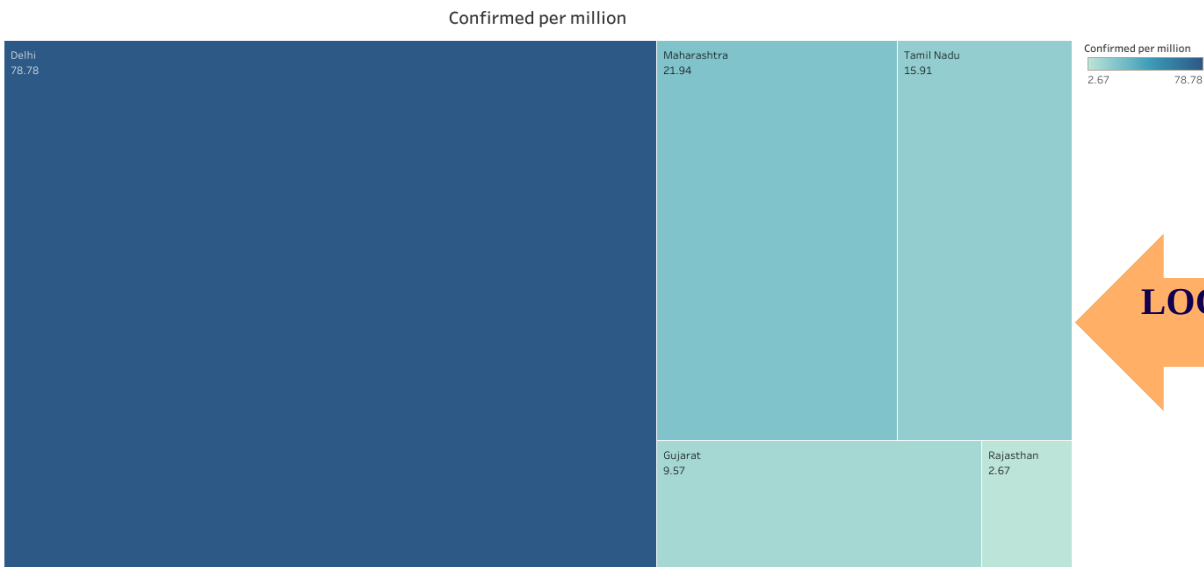
INCREMENT IN
THE
CONFIRMED
CASES

Increment in the Confirmed Cases				
Name of the State	LOCKDOWN			
	1.0	2.0	3.0	% Increment in cases from 1.0 to 3.0
Rajasthan	168	1810	2141	1274.40
Tamil Nadu	1178	1781	7674	651.44
Delhi	1526	2971	4857	318.28
Gujarat	612	4662	5576	911.11
Maharashtra	2558	10058	18512	723.69



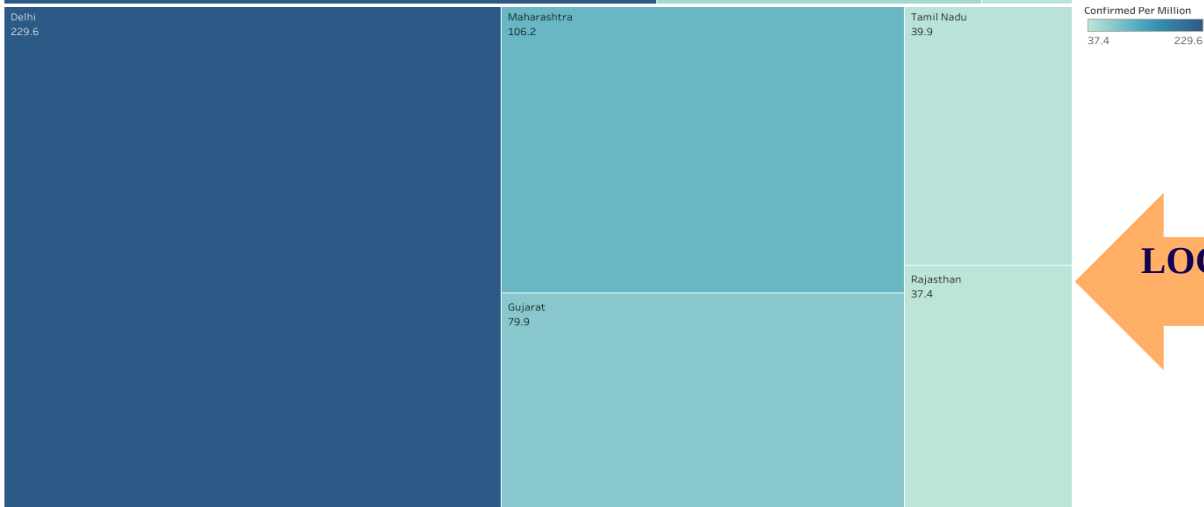
**INCREMENT IN
THE
CONFIRMED
CASES**



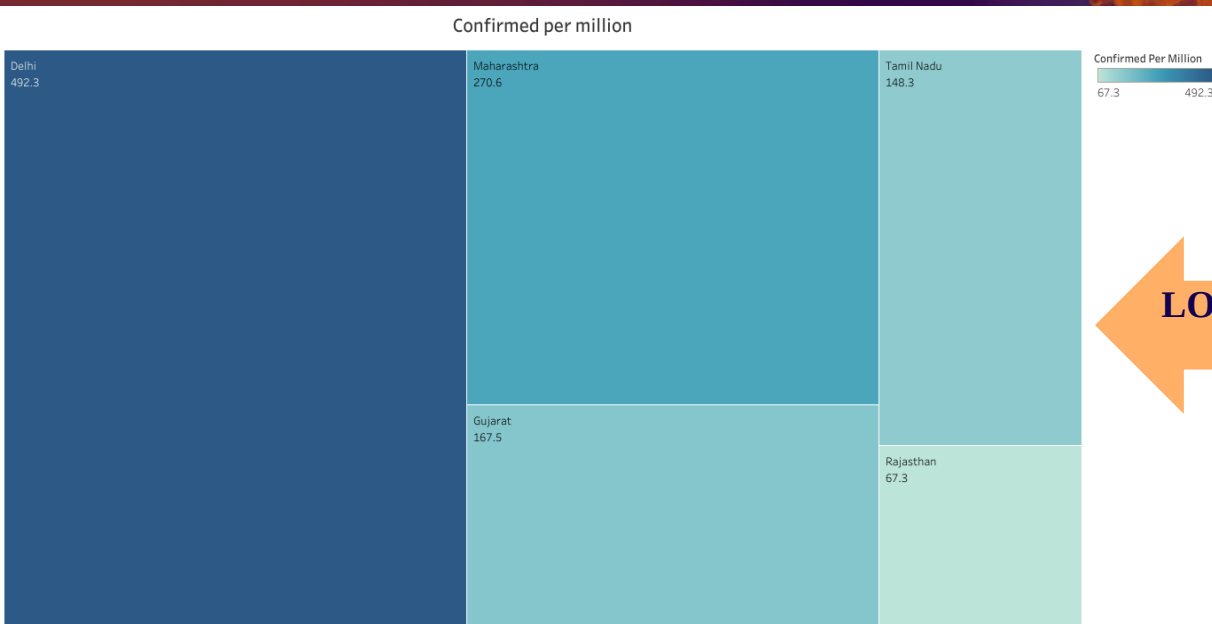


**LOCKDOWN
1.0**

**CONFIRMED
PER MILLION**



**LOCKDOWN
2.0**



LOCKDOWN
3.0

**CONFIRMED
PER MILLION**

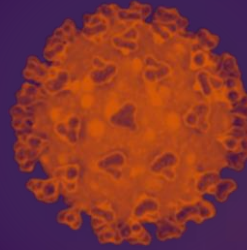
Confirmed per million				
Name of the State	Population*	LOCKDOWN		
		1.0	2.0	3.0
Rajasthan	77264000	2.67	37.35	67.33
Tamil Nadu	75695000	15.91	39.94	148.28
Delhi	19814000	78.78	229.59	492.33
Gujarat	67936000	9.57	79.90	167.51
Maharashtra	122153000	21.94	106.21	270.59

CONFIRMED
PER MILLION

$$\text{Confirmed per million} = \frac{\text{Confirmed cases by the end of the period} \times 1000000}{\text{Total Population} *}$$

* based on 2019 population projection by NCP Report, MOHFW.

PERCENTAGE OF INFECTED PEOPLE

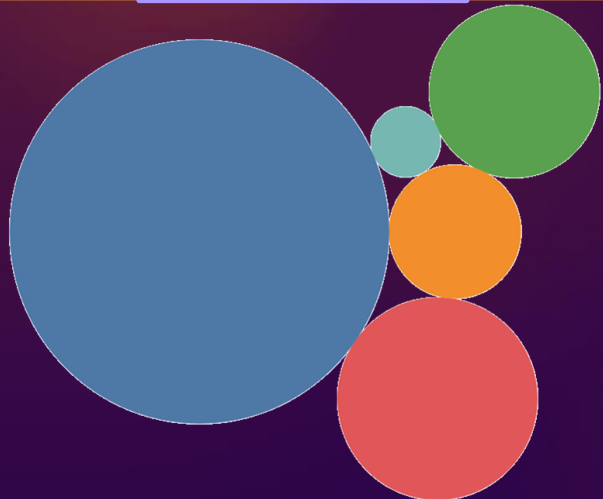


Name of the State

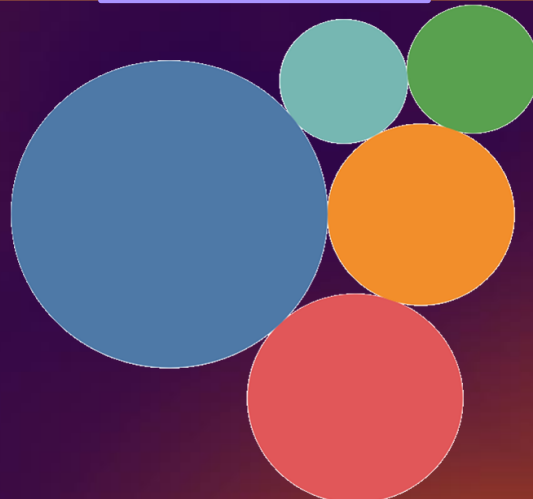
- Delhi
- Gujarat
- Maharashtra
- Rajasthan
- Tamil Nadu

THE FIRST LOOK

LOCKDOWN 1.0



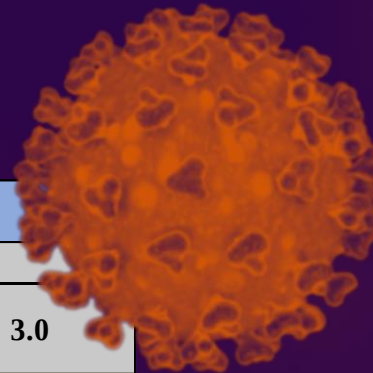
LOCKDOWN 2.0



LOCKDOWN 3.0



Percentage of infected people				
Name of the State	Population	LOCKDOWN		
		1.0	2.0	3.0
Rajasthan	77264000	0.0003	0.0037	0.0067
Tamil Nadu	75695000	0.0016	0.0040	0.0148
Delhi	19814000	0.0079	0.0230	0.0492
Gujarat	67936000	0.0010	0.0080	0.0168
Maharashtra	122153000	0.0022	0.0106	0.0271

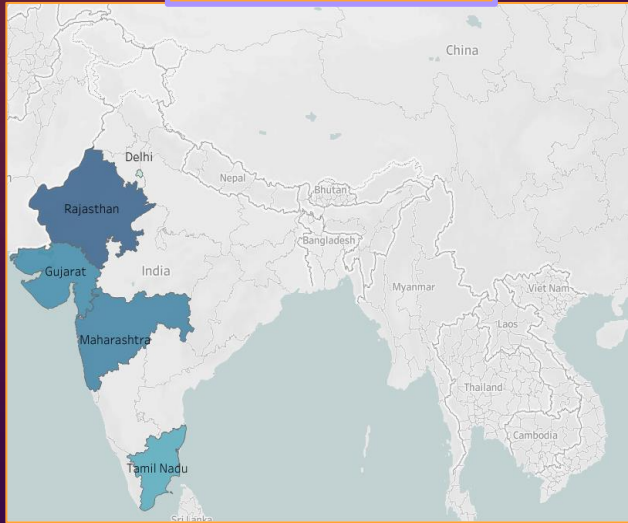


PERCENTAGE OF INFECTED PEOPLE

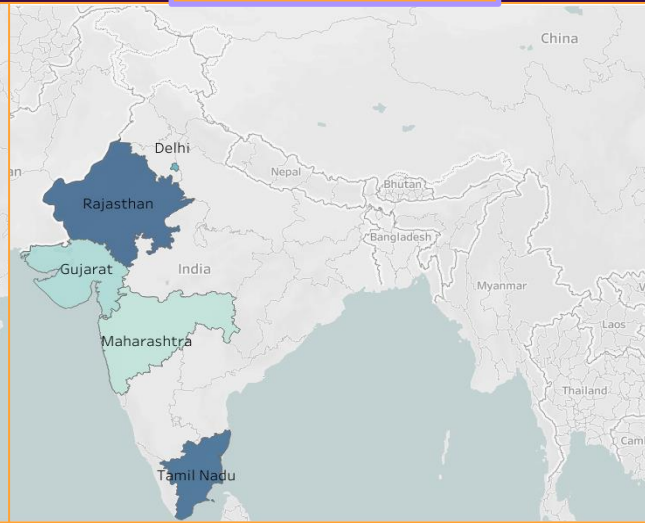
$$\text{Percentage of infected people} = \frac{\text{Confirmed cases by the end of the period}}{\text{Total Population}} \times 100$$

RECOVERY RATE

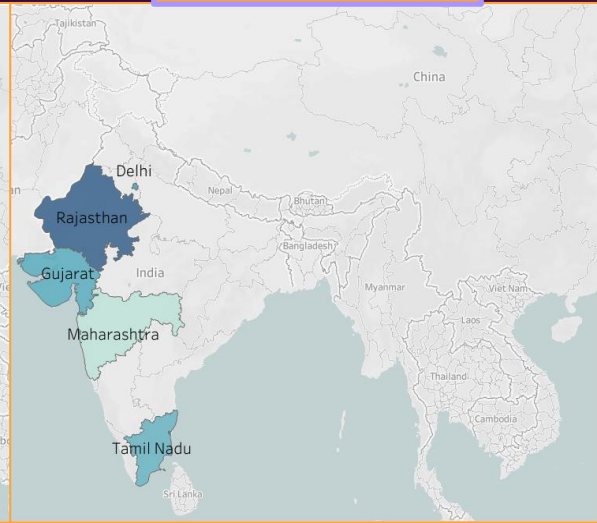
LOCKDOWN 1.0



LOCKDOWN 2.0



LOCKDOWN 3.0



RECOVERY RATE

Recovery Rate			
Name of the State	LOCKDOWN		
	1.0	2.0	3.0
Rajasthan	12.14	46.99	58.54
Tamil Nadu	6.73	45.62	37.17
Delhi	1.99	29.94	43.08
Gujarat	9.08	19.20	39.53
Maharashtra	9.66	16.30	23.26

$$\text{Recovery Rate} = \frac{\text{Recovered cases by the end of the period} \times 100}{\text{Confirmed cases by the end of the period}}$$

MARKS ASSIGNED TO EACH STATE

Name of the State	Confirmed Cases	Confirmed per million	Percentage of infected people	Recovery rate	Marks
Rajasthan	1	5	5	5	16
Tamil Nadu	4	4	4	2	14
Delhi	5	1	1	4	11
Gujarat	2	3	3	3	11
Maharashtra	3	2	2	1	8



1

2

3

4

5

ANSWER TO THE RESEARCH QUESTION

Rajasthan has shown the highest increment in the number of confirmed cases from lockdown 1.0 to lockdown 3.0, so here it is awarded with 1 wherein Delhi has shown the least increment, so awarded with 5.

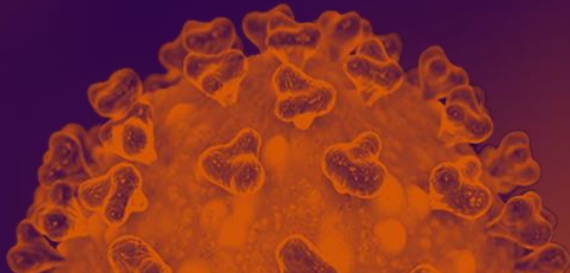
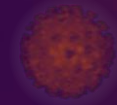
Rajasthan has shown the greatest increment in confirmed cases, but has the least number of confirmed cases per million when compared to the other states/UT.

Rajasthan had the least percentage of infected people as calculated by considering population

Rajasthan has shown a progressive improvement of 46% from lockdown 1.0 to lockdown 3.0 with respect to the recovery rate

RECOMMENDATIONS

- Training sessions to be organized for Covid-19 Contact tracing.
- Covid-19 screening to be strategies by considering population density of that particular area.
- To enhance the recovery rate, immunity boosting formulation as recommended by AYUSH Ministry as 'AYUSH KWATH' should be given to the Covid-19 patients and suggested for the intake of the same to the population.
- An active inspection team should be made that visit the shops, offices, industries etc., where relaxation in lockdown rules were given to check whether the preventive measures are been taken there or not while carrying out their work.



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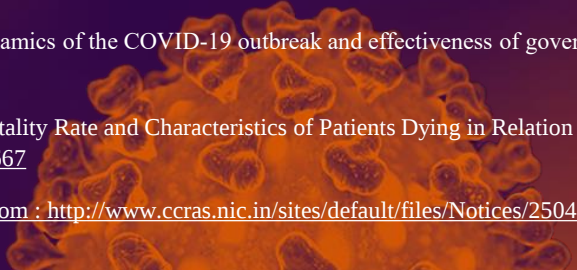
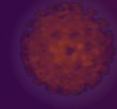
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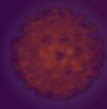
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THANK YOU

STAY SAFE

