

PHFI – Proxima Pandemic and Epidemic Management System

COVID 19: Review Dashboard

April –June 2020



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- Strategic classification of States
- Acknowledgement
- Disclaimer

COVID MANAGEMENT SCORECARD

Lockdown: 1.0 to Unlock: 1.0

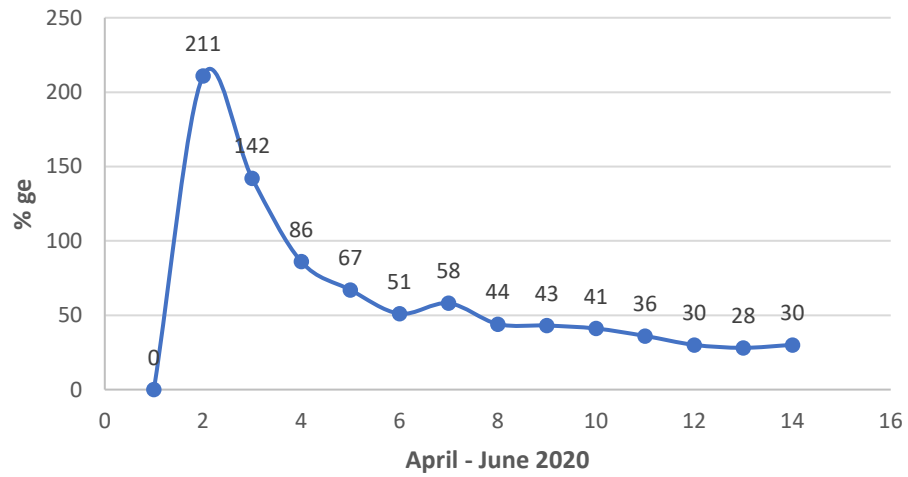
COVID 19: Review: Pan India

Key Performance indicators:

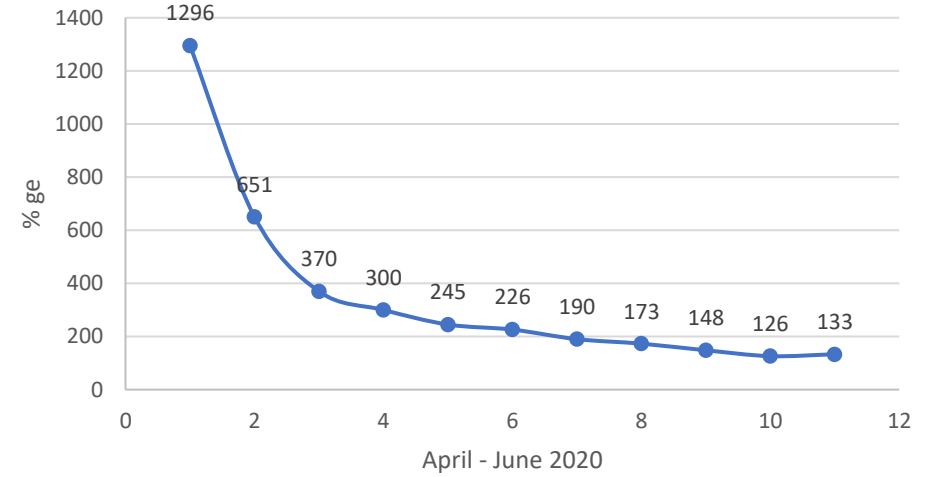
- 30 day and 90 day moving average growth rate (Positivity and Mortality)
- Testing Efficiency - Test Positivity Rate (TPR)
- Spread of Virus - Test Positivity Per Million (TPM)
- Treatment Efficiency - Mortality Rate (MR)
- Impact of Measures: Death Per Million (DPM)

COVID Positivity Growth Rate in India: 7 and 30 day Moving average

7-Day Moving Average Growth Rate of COVID Cases in India



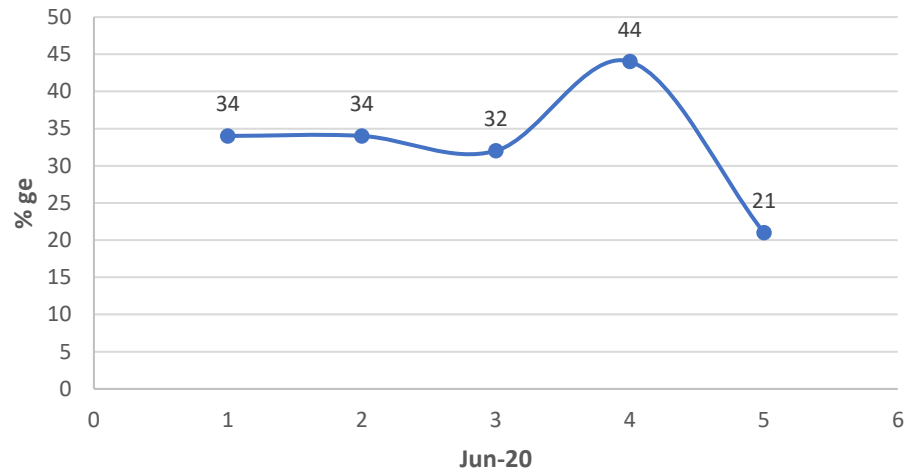
30-Day Moving Average Growth Rate of COVID Cases in India



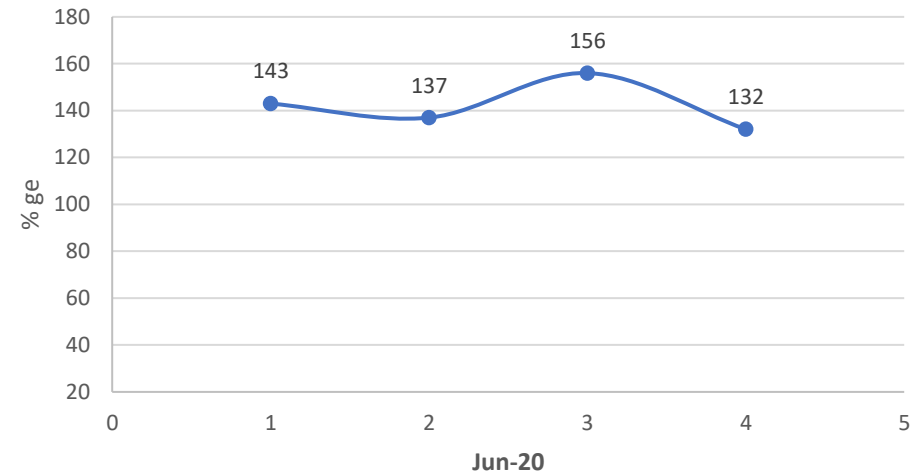
COVID Fatality Growth Rate in India: 7 and 30 day Moving average: June 2020



7-Day Moving Average growth of Case Fatality Rate



30-Day Moving Average Growth of Case Fatality Rate (CFR) of COVID Cases



Scorecard: Pan India: Lockdown 1.0 – Unlock 1.0



Period	Zone	Pan India	Population			Performance Indicators			
			1331654179			Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures
	Week		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
Lockdown: 1.0 (1)	1	6 - 11 April	63204	4461	184	7.06	3	4.12	0
Lockdown: 1.0 (2)	2	12 - 18 April	198784	7619	244	3.83	6	3.20	0
Lockdown: 2.0 (1)	3	19 - 25 April	322187	10529	339	3.27	8	3.22	0
Lockdown: 2.0 (2)	4	26 Apr - 02 May	408231	13555	491	3.32	10	3.62	0
Lockdown: 3.0 (1)	5	03 - 09 May	542032	23200	776	4.28	17	3.34	1
Lockdown: 3.0 (2)	6	10 - 16 May	638220	28538	797	4.47	21	2.79	1
Lockdown: 4.0 (1)	7	17 - 22 May	833699	40087	993	4.81	30	2.48	1
Lockdown: 4.0 (2)	8	24 - 30 May	764521	40279	1161	5.27	30	2.88	1
Unlock: 1.0 (1)	9	31 May - 06 June	1048358	60871	1761	5.81	46	2.89	1
Unlock: 1.0 (2)	10	07 - 13 June	1105763	75224	2252	6.80	56	2.99	2
Unlock: 1.0 (3)	11	14 - 20 June	1287885	88803	4097	6.90	67	4.61	3
Unlock: 1.0 (4)	12	21 - 27 June	1594567	119192	2826	7.47	90	2.37	2
Consolidated			8807451	512358	15921	5.82	385	3.11	12
Club of nations having over 100K COVID Cases						7.66	2625	5.04	132

Zonewise Scorecard: Lockdown 1.0 – Unlock 1.0

Period	Pan India	Population	1331654179		Performance Indicators			
					Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures
		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
06th April - 27th June	EAG States	2812759	80771	1715	2.87	61	2.12	1
	Mega States	5266287	345781	11632	6.57	260	3.36	9
	Micro States	219963	4386	5	1.99	3	0.11	0
	Union Territories	56204	2157	17	3.84	2	0.79	0
	Delhi	452238	79263	2552	17.53	60	3.22	2
Consolidated		8807451	512358	15921	5.82	385	3.11	12
Club of nations having over 100K COVID Cases as on 30 June 2020					7.66	2625	5.04	132

EAG STATES ZONE REVIEW

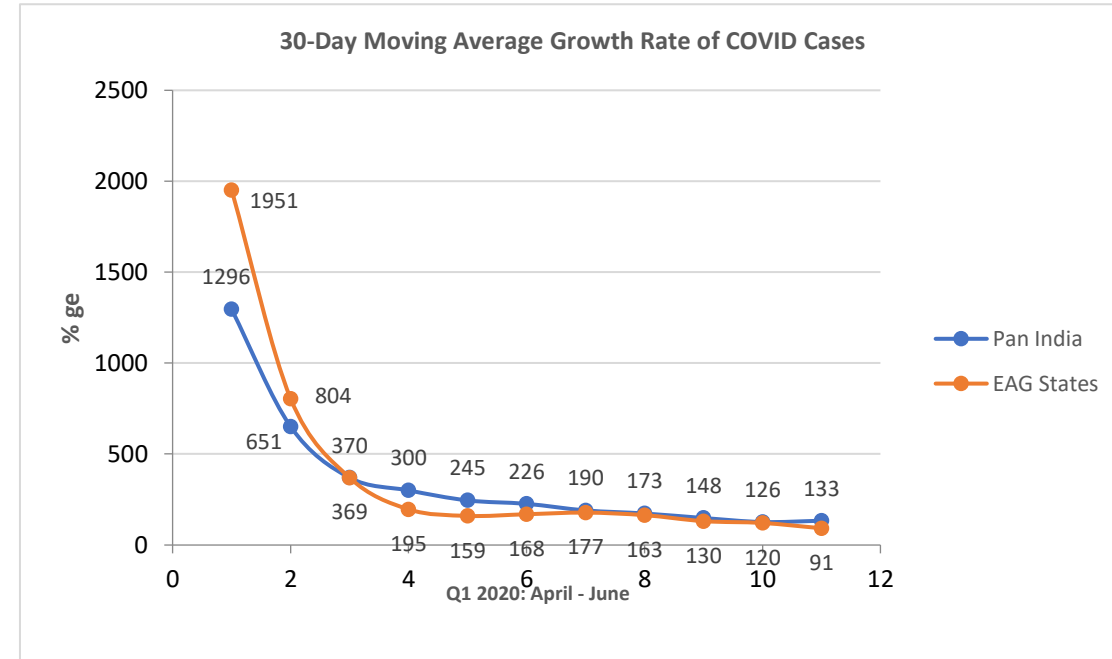
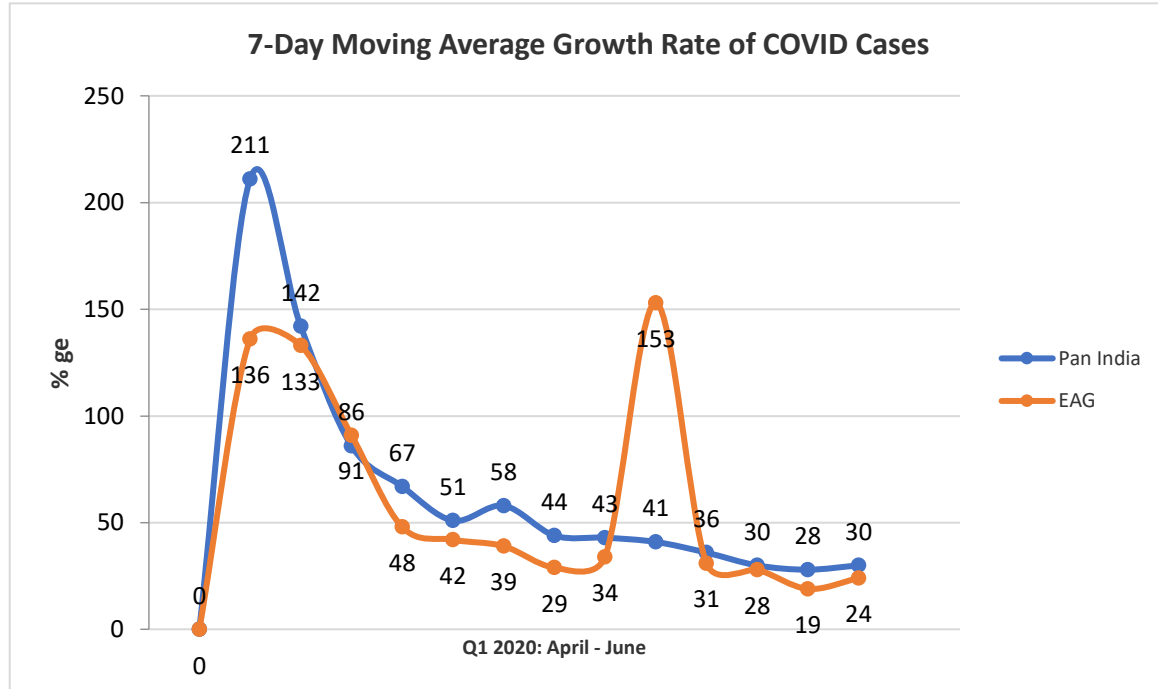
States:

Assam, Bihar, Chattisgarh, Jharkhand, Madhya Pradesh, Odhisha, Rajasthan, Uttarakhand, Uttar Pradesh

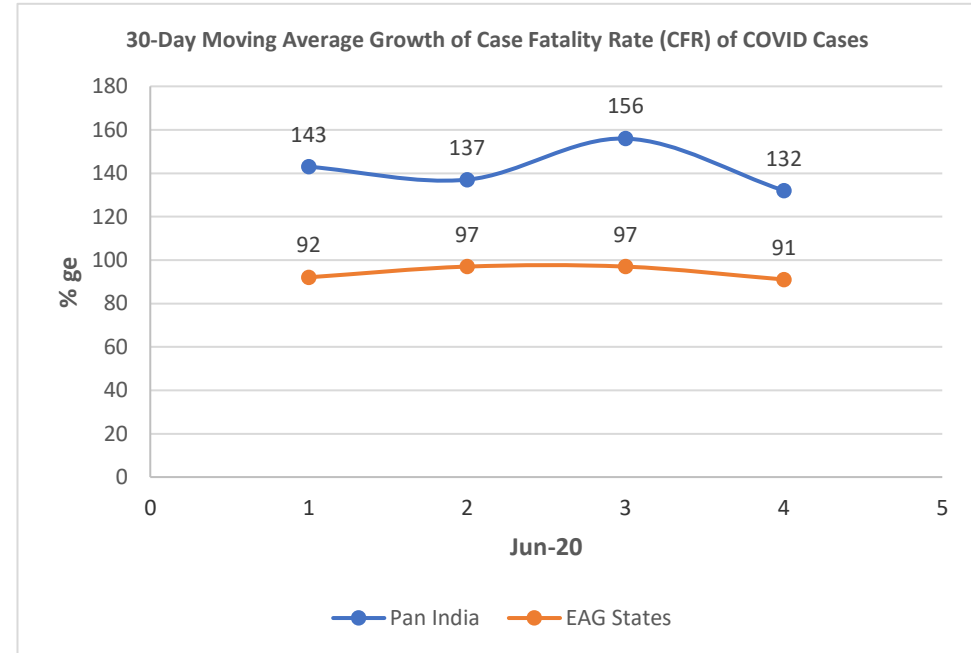
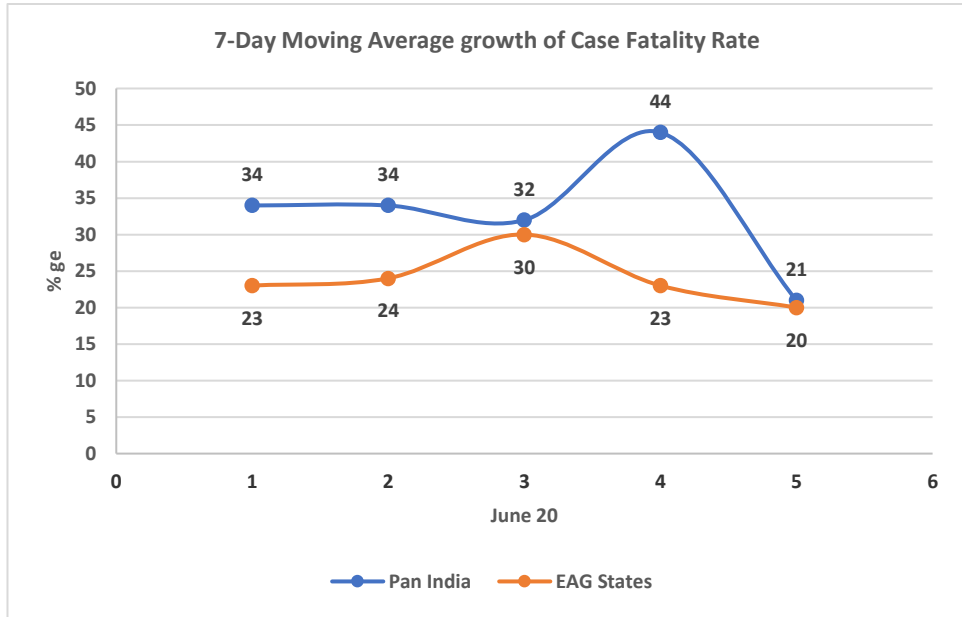
Key Performance indicators:

- 30 day and 90 day moving average growth rate (Positivity and Mortality)
- Testing Efficiency - Test Positivity Rate (TPR)
- Spread of Virus - Test Positivity Per Million (TPM)
- Treatment Efficiency - Mortality Rate (MR)
- Impact of Measures: Death Per Million (DPM)

COVID Positivity Growth Rate in EAG States: 7 and 30 day Moving average



COVID Fatality Growth Rate in EAG States: 7 and 30 day Moving average: June 2020



EAG States Scorccard: Lockdown 1.0 – Unlock 1.0

Period	Zone	EAG States	Population	295172602						Performance Indicators			
				Week		Number of Tests	Positive Cases	Mortality	Testing Efficiency		Spread of Virus		Treatment Efficacy
			Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%				Death Per Million (DPM)				
Lockdown: 1.0 (1)	1	6 - 11 April	25938	1216	46	4.69	4	3.78	0				
Lockdown: 1.0 (2)	2	12 - 18 April	62534	2119	55	3.39	7	2.60	0				
Lockdown: 2.0 (1)	3	19 - 25 April	101140	2505	58	2.48	8	2.32	0				
Lockdown: 2.0 (2)	4	26 Apr - 02 May	127620	2588	98	2.03	9	3.79	0				
Lockdown: 3.0 (1)	5	03 - 09 May	148823	3076	137	2.07	10	4.45	0				
Lockdown: 3.0 (2)	6	10 - 16 May	208169	4968	92	2.39	17	1.85	0				
Lockdwon: 4.0 (1)	7	17 - 22 May	282977	7746	134	2.74	26	1.73	0				
Lockdwon: 4.0 (2)	8	24 - 30 May	251023	7397	149	2.95	25	2.01	1				
Unlock: 1.0 (1)	9	31 May - 06 June	358780	10331	168	2.88	35	1.63	1				
Unlock: 1.0 (2)	10	07 - 13 June	350077	12111	243	3.46	41	2.01	1				
Unlock: 1.0 (3)	11	14 - 20 June	395998	12340	279	3.12	42	2.26	1				
Unlock: 1.0 (4)	12	21 - 27 June	499680	14374	256	2.88	49	1.78	1				
EAG States Weekwise Consolidated			2812759	80771	1715	2.87	274	2.12	6				
Pan India Consolidated			8807451	512358	15921	5.82	385	3.11	12				
Club of nations having over 100K COVID Cases as on 30 June 2020						7.66	2625	5.04	132				

EAG States: Statewise Scorecard: Lockdown 1.0 – Unlock 1.0

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Period	EAG States	Population	295172602		Performance Indicators			
					Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures
		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
06th April - 20th June	Assam	358721	7141	9	1.99	24	0.13	0
	Bihar	189268	9114	55	4.82	31	0.60	0
	Chattisgarh	130890	2591	9	1.98	9	0.35	0
	Jharkhand	132108	2241	13	1.70	8	0.58	0
	Madhya Pradesh	332379	12800	538	3.85	43	4.20	2
	Odisha	246648	6311	24	2.56	21	0.38	0
	Rajasthan	756343	16642	386	2.20	56	2.32	1
	Uttarakhand	61282	2690	35	4.39	9	1.30	0
	Uttar Pradesh	605120	21241	646	3.51	72	3.04	2
EAG Statewise Consolidated		2812759	80771	1715	2.87	274	2.12	6
Pan India Consolidated		8807451	512358	15921	5.82	385	3.11	12
Club of nations having over 100K COVID Cases as on 30 June 2020					7.66	2625	5.04	132

MEGA STATES ZONE REVIEW

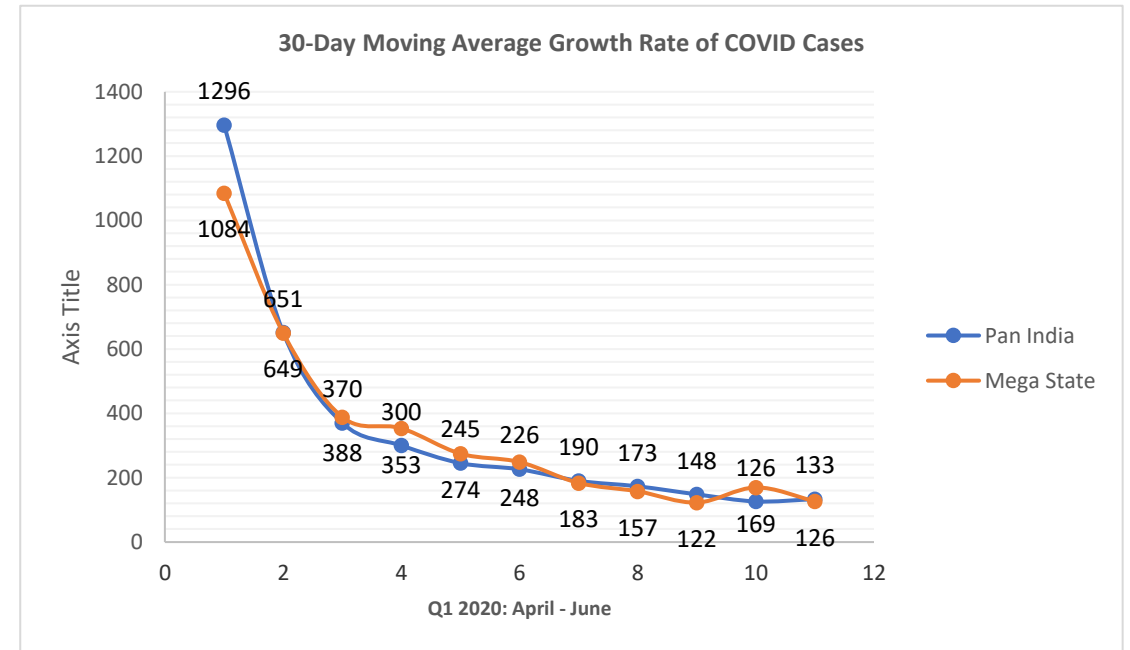
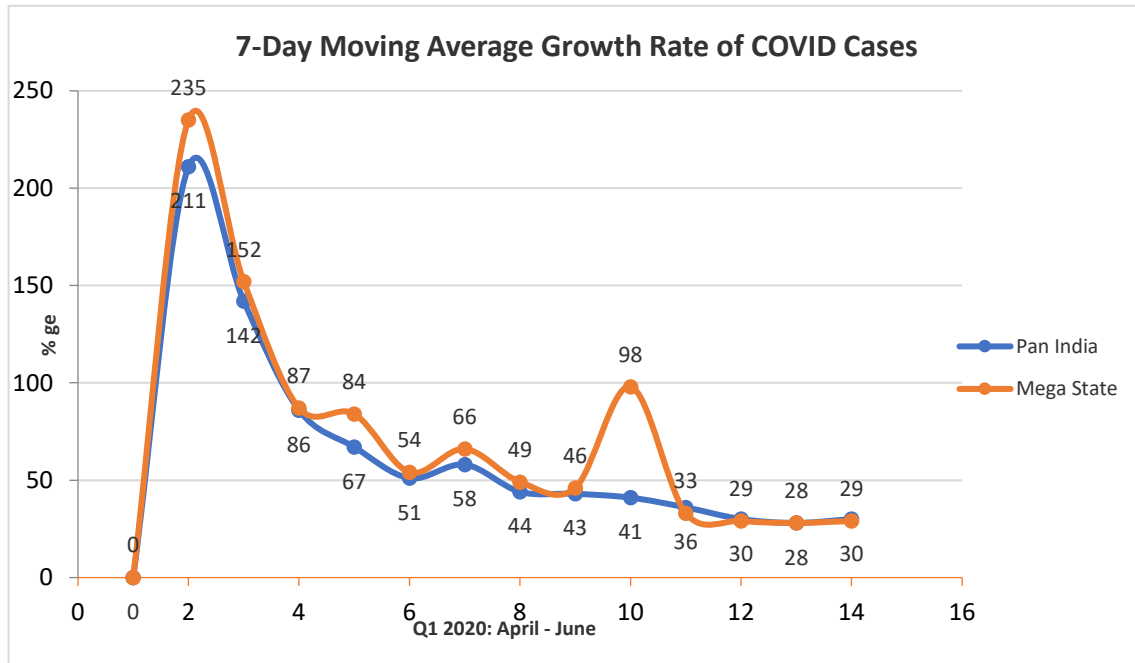
States

Andhra Pradesh, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Maharashtra, Punjab, Tamil Nadu, Telangana, West Bengal

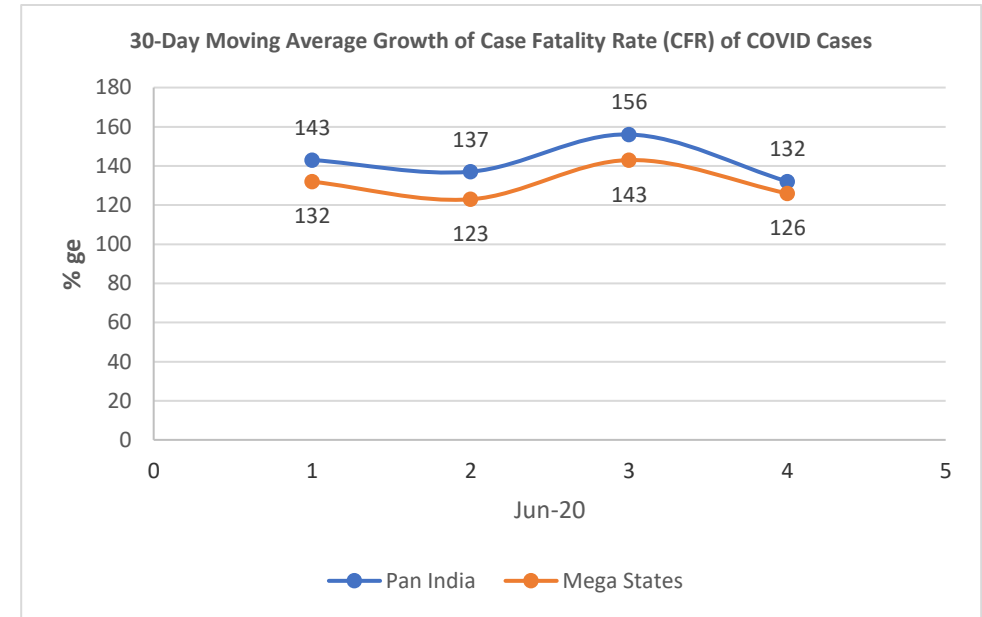
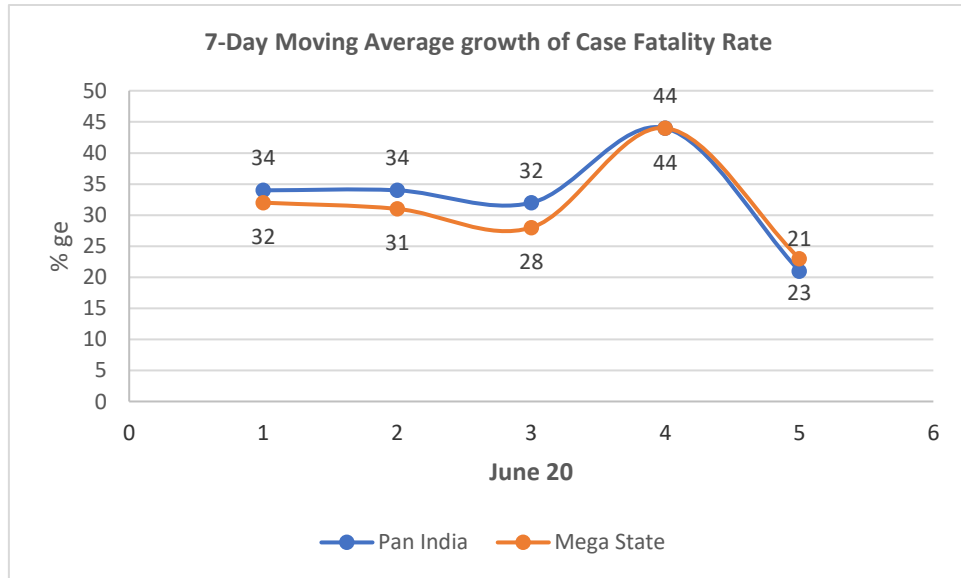
Key Performance indicators:

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- Spread of Virus - Test Positivity Per Million (TPM)
- Treatment Efficiency - Mortality Rate (MR)
- Impact of Measures: Death Per Million (DPM)

COVID Positivity Growth Rate in Mega States: 7 and 30 day Moving average



COVID Fatality Growth Rate in Mega States: 7 and 30 day Moving average: June 2020



Mega States Scorecard: Lockdown 1.0 – Unlock 1.0

Period	Region	Mega States	Population			Performance Indicators			
			632088000			Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures
	Week		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
Lockdown: 1.0 (1)	1	6 - 11 April	35354	2672	126	7.56	4.23	0.36	0.20
Lockdown: 1.0 (2)	2	12 - 18 April	124575	4655	164	3.74	7.36	0.13	0.26
Lockdown: 2.0 (1)	3	19 - 25 April	204670	7264	270	3.55	11.49	0.13	0.43
Lockdown: 2.0 (2)	4	26 Apr - 02 May	262536	9386	383	3.58	14.85	0.15	0.61
Lockdown: 3.0 (1)	5	03 - 09 May	356787	17472	633	4.90	27.64	0.18	1.00
Lockdown: 3.0 (2)	6	10 - 16 May	370617	20709	643	5.59	32.76	0.17	1.02
Lockdown: 4.0 (1)	7	17 - 22 May	500514	28494	745	5.69	45.08	0.15	1.18
Lockdown: 4.0 (2)	8	24 - 30 May	454907	27536	857	6.05	43.56	0.19	1.36
Unlock: 1.0 (1)	9	31 May - 06 June	604046	40368	1246	6.68	63.86	0.21	1.97
Unlock: 1.0 (2)	10	7 - 13 June	663671	50265	1495	7.57	79.52	0.23	2.37
Unlock: 1.0 (3)	11	21 - 27 June	773361	57193	2952	7.40	90.48	0.38	4.67
Unlock: 1.0 (4)	12	21 - 27 June	915249	79767	2118	8.72	126.20	0.23	3.35
Mega States Weekwise Consolidated Period			5266287	345781	11632	6.57	547	0.22	18
Pan India Consolidated			8807451	512358	15921	5.8	385	3.1	12
Club of nations having over 100K COVID Cases as on 30 June 2020						7.66	2625	5.04	132

Mega States: Statewise Scorecard: Lockdown 1.0 – Unlock 1.0

Period	Mega States	Population	632088000		Performance Indicators			
		Number of Tests	Positive Cases	Mortality	Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures
					Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
29 March - 27th June	Andhra Pradesh	790164	12052	157	1.53	19.07	1.30	0.25
	Gujarat	346263	30501	1771	8.81	48.25	5.81	2.80
	Haryana	240962	13131	216	5.45	20.77	1.64	0.34
	Himachal Pradesh	73253	874	9	1.19	1.38	1.03	0.01
	Jammu and Kashmir	335688	6739	92	2.01	10.66	1.37	0.15
	Karnataka	566931	11710	188	2.07	18.53	1.61	0.30
	Kerala	204233	3760	21	1.84	5.95	0.56	0.03
	Maharashtra	876042	156331	7181	17.85	247.32	4.59	11.36
	Punjab	281601	4950	145	1.76	7.83	2.93	0.23
	Tamil Nadu	1063999	76989	1012	7.24	121.80	1.31	1.60
	Telangana	52869	12321	228	23.30	19.49	1.85	0.36
	West Bengal	434282	16423	612	3.78	25.98	3.73	0.97
Mega State: Statewise Consolidated		5266287	345781	11632	6.57	547	3.36	18
Pan India Consolidated		8807451	512358	15921	5.8	385	3.1	12
Club of nations having over 100K COVID Cases as on 30 June 2020					7.66	2625	5.04	132

MICRO STATES ZONE REVIEW

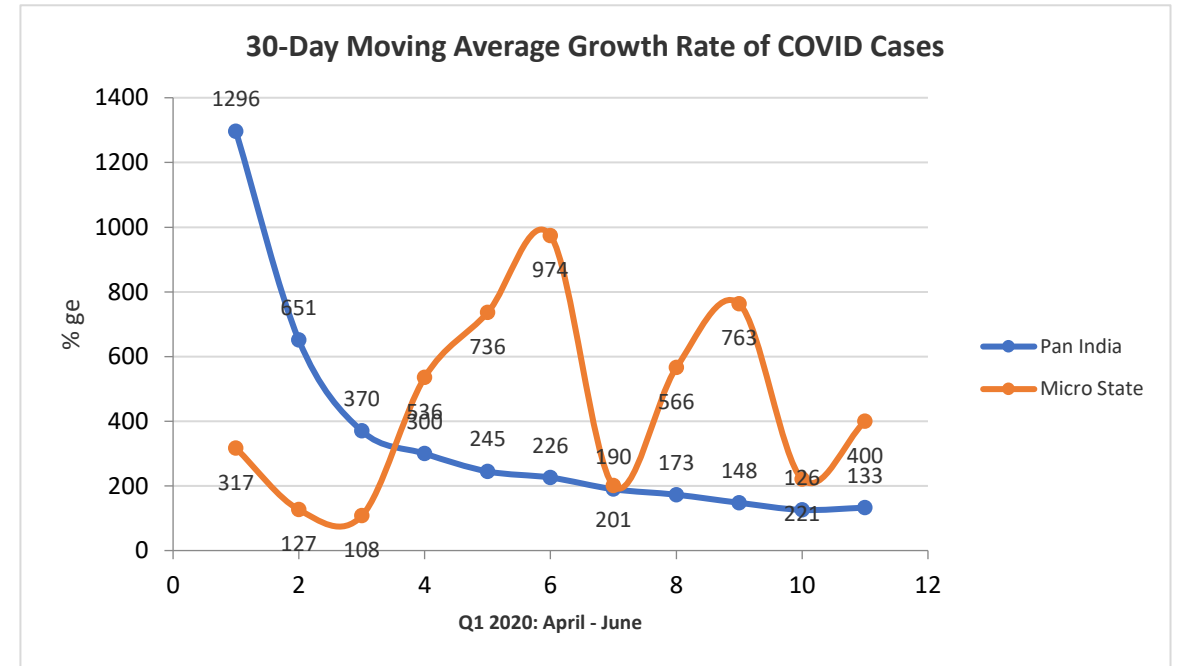
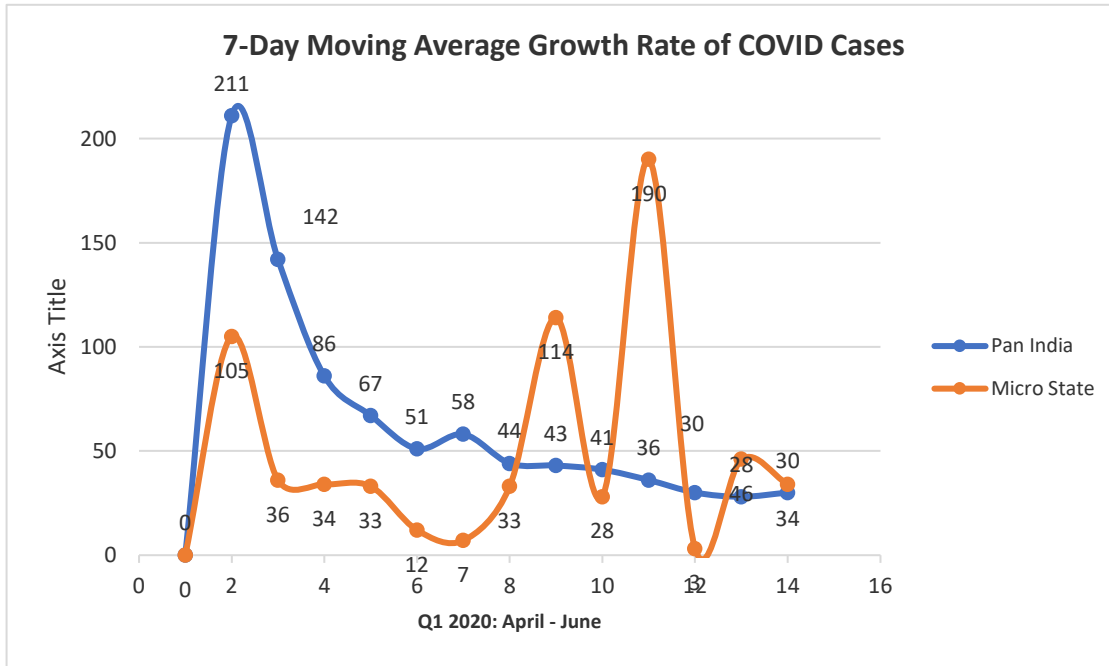
States

Arunachal Pradesh, Goa, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, and Tripura

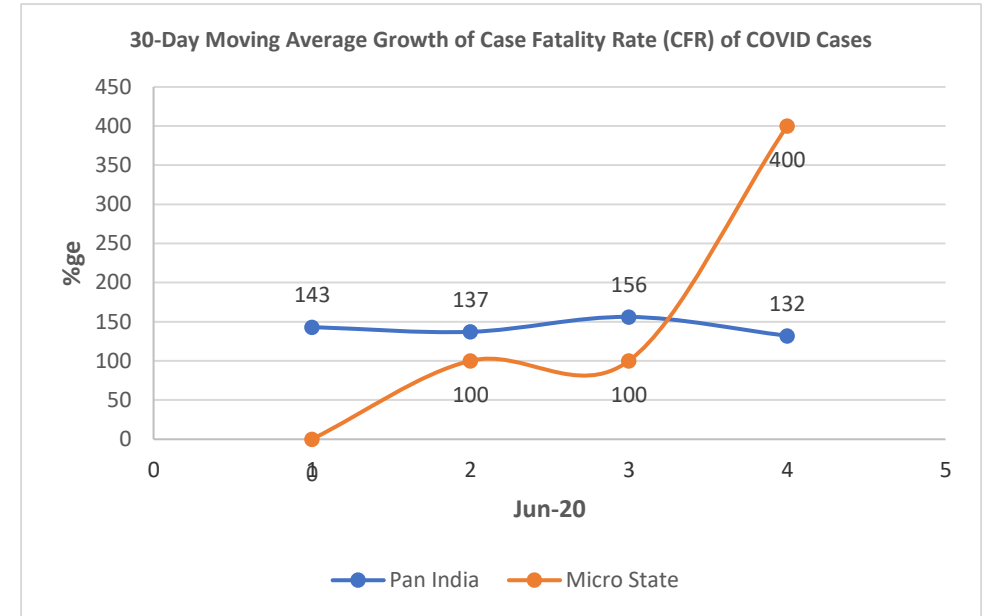
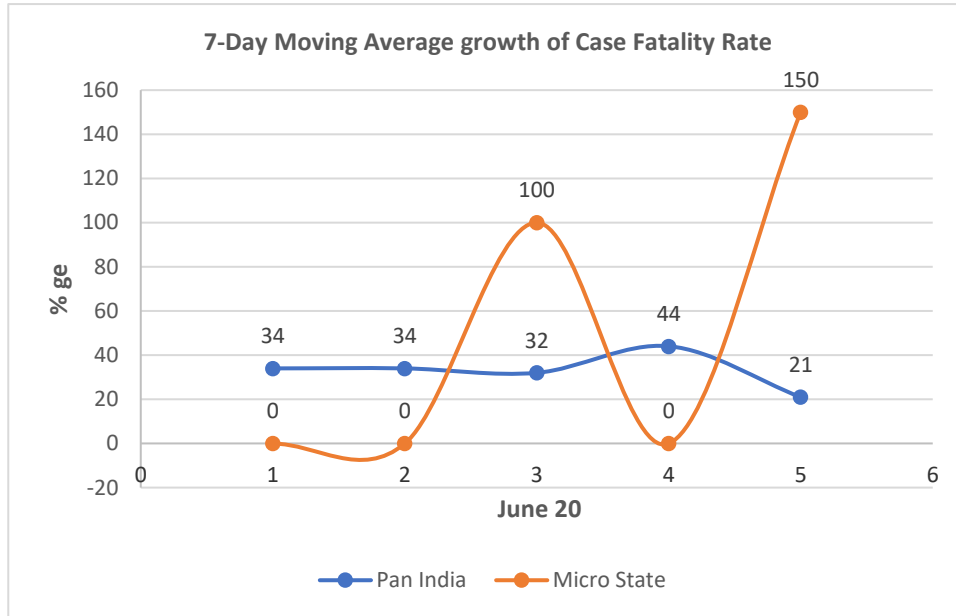
Key Performance indicators

- 30 day and 90 day moving average growth rate (Positivity and Mortality)
- Testing Efficiency - Test Positivity Rate (TPR)
- Spread of Virus - Test Positivity Per Million (TPM)
- Treatment Efficiency - Mortality Rate (MR)
- Impact of Measures: Death Per Million (DPM)

COVID Positivity Growth Rate in Micro States: 7 and 30 day Moving average



COVID Fatality Growth Rate in Micro States: 7 and 30 day Moving average: June 2020



MICRO States Scorecard: Lockdown 1.0 – Unlock 1.0

Period	Region	Micro States	Population		Performance Indicators				
			13607888		Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures	
	Week		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
Lockdown: 1.0 (1)	1	6 - 11 April	40	2	0	5.00	0.15	0.00	0.00
Lockdown: 1.0 (2)	2	12 - 18 April	662	11	1	1.66	0.81	0.15	0.07
Lockdown: 2.0 (1)	3	19 - 25 April	1692	1	0	0.06	0.07	0.00	0.00
Lockdown: 2.0 (2)	4	26 Apr - 02 May	1955	14	0	0.72	1.03	0.00	0.00
Lockdown: 3.0 (1)	5	03 - 09 May	7230	136	0	1.88	9.99	0.00	0.00
Lockdown: 3.0 (2)	6	10 - 16 May	10032	40	0	0.40	2.94	0.00	0.00
Lockdown: 4.0 (1)	7	17 - 22 May	11183	82	0	0.73	6.03	0.00	0.00
Lockdown: 4.0 (2)	8	24 - 30 May	18382	147	0	0.80	10.80	0.00	0.00
Unlock: 1.0 (1)	9	31 May - 06 June	37748	955	0	2.53	70.18	0.00	0.00
Unlock: 1.0 (2)	10	7 - 13 June	43208	1084	1	2.51	79.66	0.00	0.07
Unlock: 1.0 (3)	11	14 - 20 June	43490	827	0	1.90	60.77	0.00	0.00
Unlock: 1.0 (4)	12	21 - 27 June	44341	1087	3	2.45	79.88	0.01	0.20
Micro State: Weekwise consolidated			219963	4386	5	1.99	322.31	0.00	0.33
Pan India: Consolidated			8807451	512358	15921	5.8	385	3.1	12
Club of nations having over 100K COVID Cases as on 30 June 2020						7.66	2625	5.04	134

MICRO States: Statewise Scorecard: Lockdown 1.0 – Unlock 1.0

Period	Micro States	Population	Performance Indicators					
			13607888			Testing Efficiency	Spread of Virus	Treatment Efficacy
		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
29 March - 27th June	Arunachal Pradesh	19493	178	1	0.91	13.08	0.01	0.01
	Goa	58921	1129	2	1.92	82.97	0.00	0.01
	Manipur	35409	1071	0	3.02	78.70	0.00	0.00
	Meghalaya	13128	48	1	0.37	3.53	0.01	0.01
	Mizoram	12682	146	0	1.15	10.73	0.00	0.00
	Nagaland	13938	387	0	2.78	28.44	0.00	0.00
	Sikkim	9791	91	0	0.93	6.69	0.00	0.00
	Tripura	56601	1336	1	2.36	98.18	0.00	0.01
Micro State: Statewise Consolidated		219963	4386	5	1.99	322.31	0.00	0.03
Pan India: Consolidated		8807451	512358	15921	5.8	385	3.1	12
Club of nations having over 100K COVID Cases as on 30 June 2020					7.66	2625	5.04	134

UNION TERRITORIES REVIEW

Union Territories

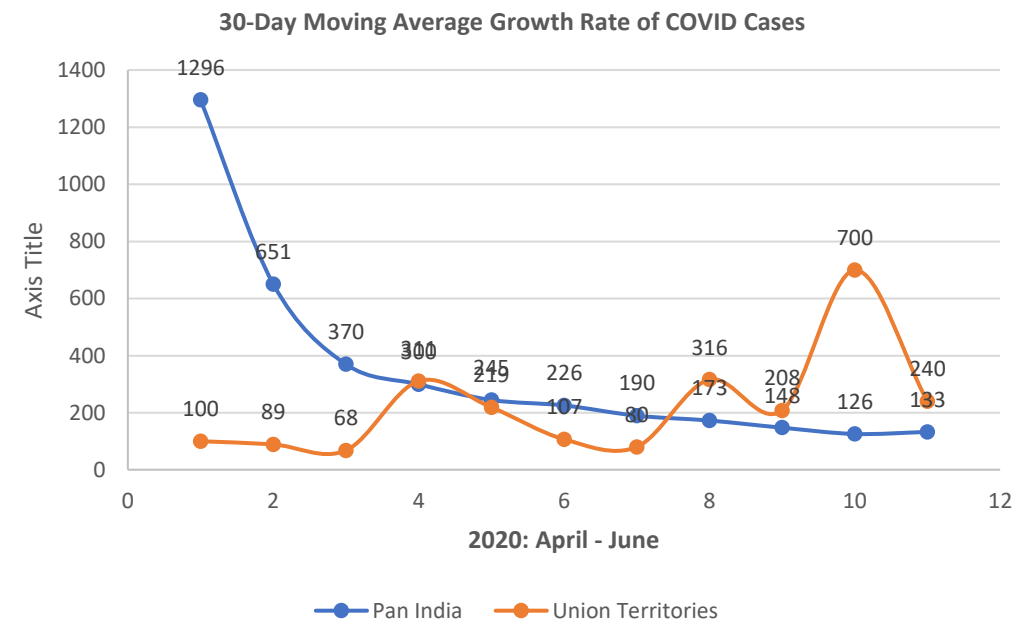
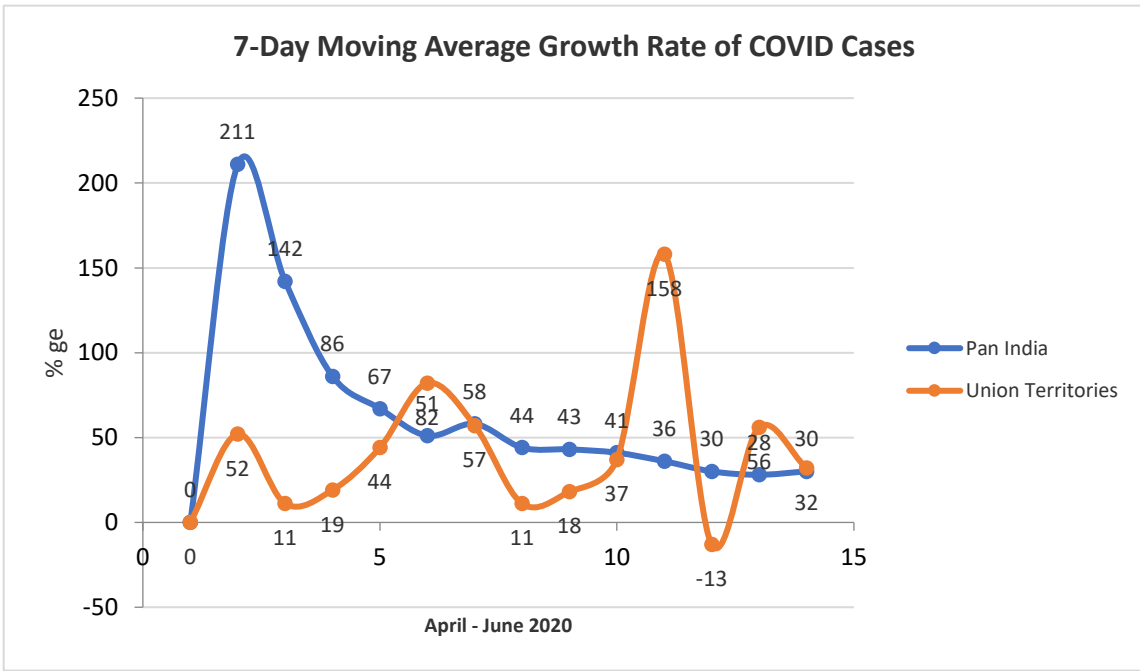
Andaman & Nicobar, Chandigarh, Dadar & Nagar, Ladakh, and Puducherry.

(Delhi has been presented separately)

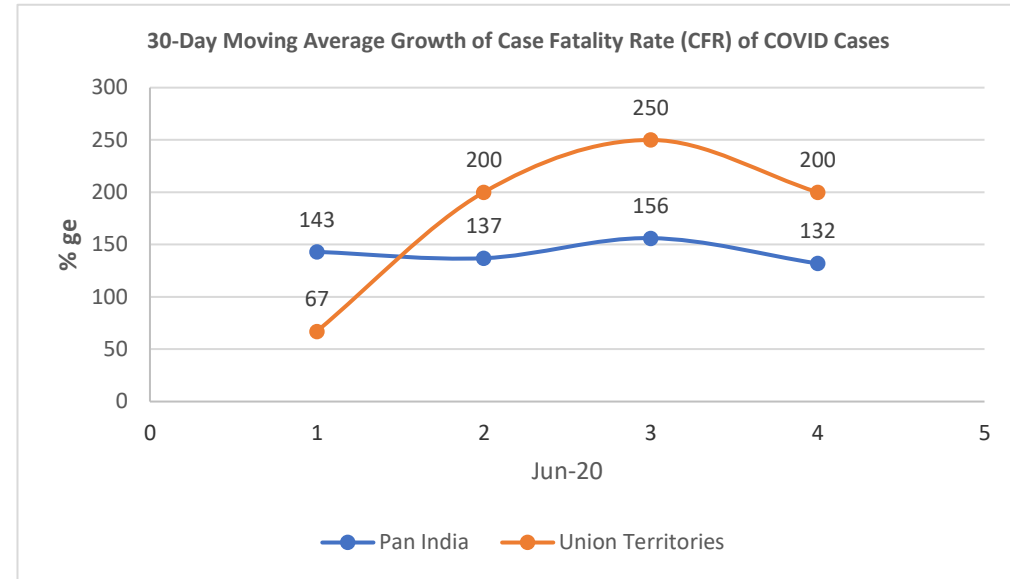
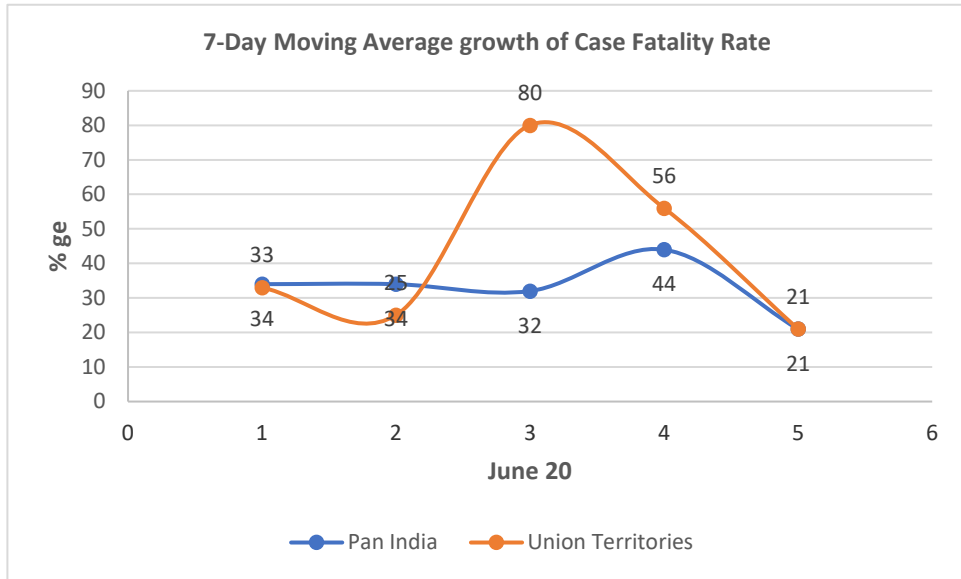
Key Performance indicators

- 30 day and 90 day moving average growth rate (Positivity and Mortality)
- Testing Efficiency - Test Positivity Rate (TPR)
- Spread of Virus - Test Positivity Per Million (TPM)
- Treatment Efficiency - Mortality Rate (MR)
- Impact of Measures: Death Per Million (DPM)

COVID Positivity Growth Rate in Union Territories: 7 and 30 day Moving average



COVID Fatality Growth Rate in Union Territories: 7 and 30 day Moving average: June 2020



Union Territories Scorecard: Lockdown 1.0 – Unlock 1.0



Period	Region	Union Territories (Excluding Delhi)	Population			Performance Indicators			
			10563000			Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures
	Week		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
Lockdown: 1.0 (1)	1	6 - 11 April	131	5	0	3.82	0.47	0.00	0.00
Lockdown: 1.0 (2)	2	12 - 18 April	442	10	0	2.26	0.95	0.00	0.00
Lockdown: 2.0 (1)	3	19 - 25 April	1449	27	0	1.86	2.56	0.00	0.00
Lockdown: 2.0 (2)	4	26 Apr - 02 May	4414	70	0	1.59	6.63	0.00	0.00
Lockdown: 3.0 (1)	5	03 - 09 May	3176	96	2	3.02	9.09	2.08	0.08
Lockdown: 3.0 (2)	6	10 - 16 May	2783	30	1	1.08	2.84	3.33	0.04
Lockdown: 4.0 (1)	7	17 - 22 May	5139	102	1	1.98	9.66	0.98	0.04
Lockdown: 4.0 (2)	8	24 - 30 May	3343	68	0	2.03	6.44	0.00	0.00
Unlock: 1.0 (1)	9	31 May - 06 June	7650	112	2	1.46	10.60	1.79	0.08
Unlock: 1.0 (2)	10	7 - 13 June	12441	460	3	3.70	43.55	0.65	0.13
Unlock: 1.0 (3)	11	14 - 20 June	6366	655	5	10.29	62.01	0.76	0.21
Unlock: 1.0 (4)	12	21 - 27 June	8870	522	3	5.89	49.42	0.57	0.13
Union Territories: Weekwise Consolidated			56204	2157	17	3.84	204.20	0.79	0.72
Pan India: Consolidated			8807451	512358	15921	5.8	385	3.1	12
Club of nations having over 100K COVID Cases as on 30 June 2020						7.66	2625	5.04	132

Union Territory wise Scorecard: Lockdown 1.0 – Unlock 1.0

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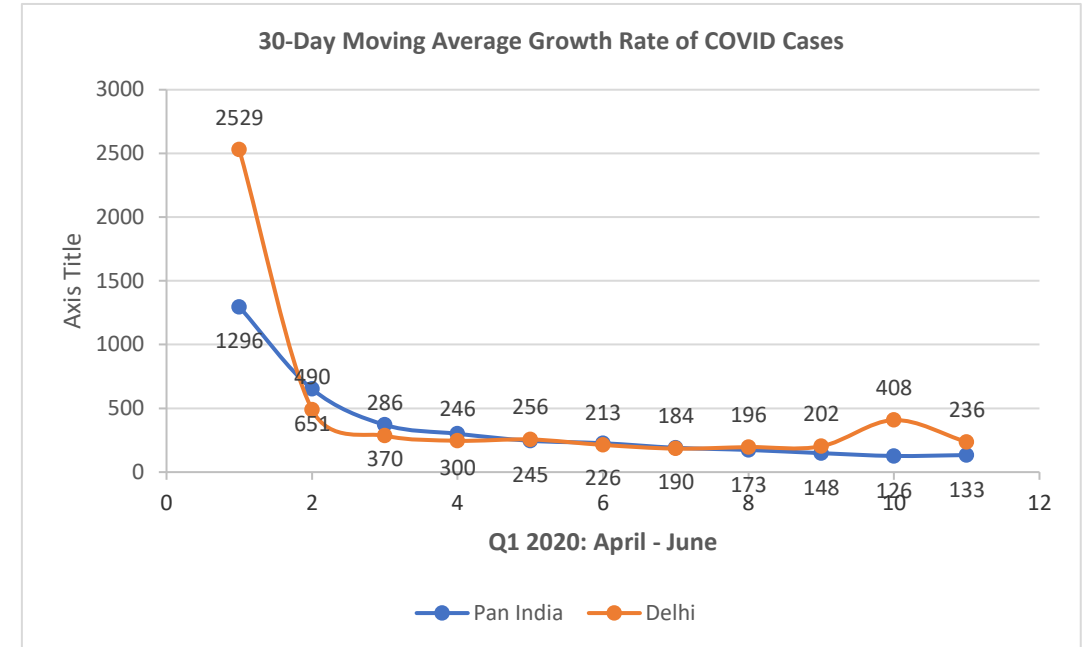
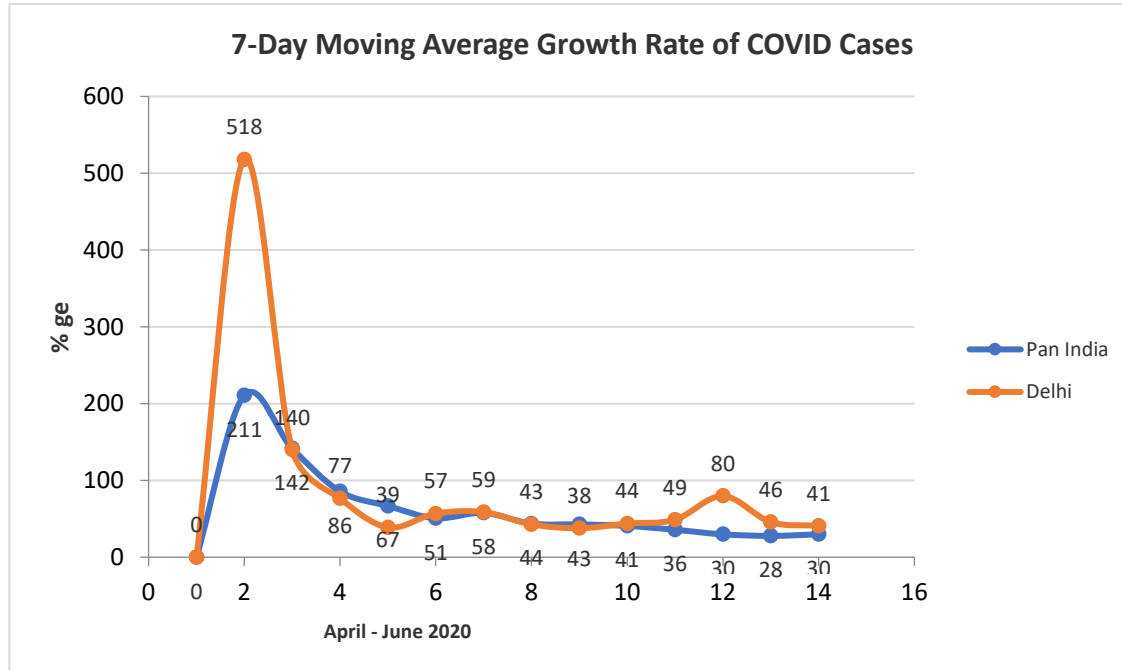
Period	Union Territories (Excluding Delhi)	Population	Performance Indicators					
			10563000			Testing Efficiency	Spread of Virus	Treatment Efficacy
		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
29 March - 27th June	Andaman & Nicobar	4067	62	0	1.52	5.87	0.00	0.00
	Chandigarh	6646	396	6	5.96	37.49	0.09	0.04
	Dadar & Nagar	18838	151	0	0.80	14.30	0.00	0.00
	Ladakh	7979	934	1	11.71	88.42	0.01	0.01
	Puducherry	18674	614	10	3.29	58.13	0.05	0.07
Union Territories: Consolidated		56204	2157	17	3.84	204.20	0.03	0.12
Pan India: Consolidated		8807451	512358	15921	5.8	385	3.1	12
Club of nations having over 100K COVID Cases as on 30 June 2020					7.66	2625	5.04	132

DELHI PERFORMANCE

Key Performance indicators

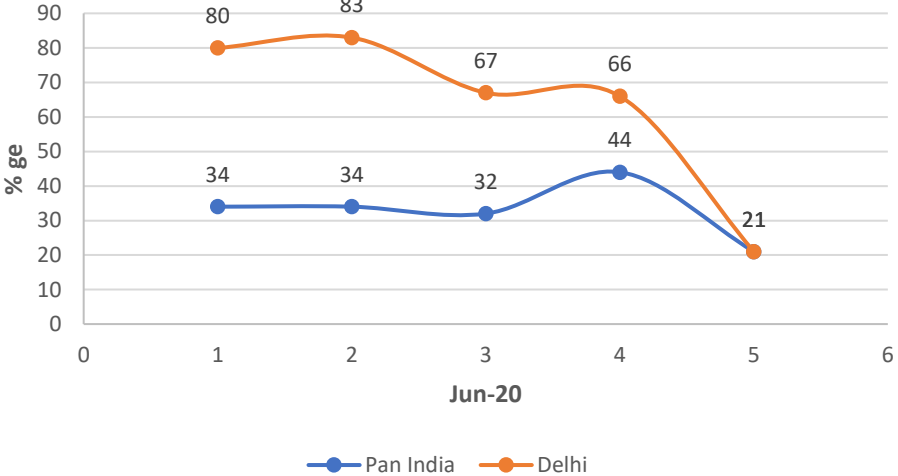
- 30 day and 90 day moving average growth rate (Positivity and Mortality)
- Testing Efficiency - Test Positivity Rate (TPR)
- Spread of Virus - Test Positivity Per Million (TPM)
- Treatment Efficiency - Mortality Rate (MR)
- Impact of Measures: Death Per Million (DPM)

COVID Positivity Growth Rate in Delhi: 7 and 30 day Moving average

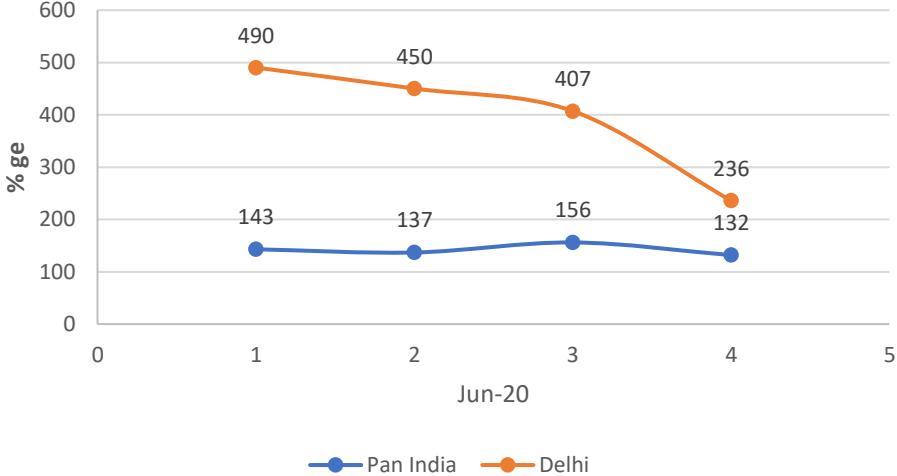


COVID Fatality Growth Rate in Delhi: 7 and 30 day Moving average: June 2020

7-Day Moving Average growth of Case Fatality Rate



30-Day Moving Average Growth of Case Fatality Rate (CFR) of COVID Cases



Delhi Scorecard: Lockdown 1.0 – Unlock 1.0



Period	State	Delhi	Population			Performance Indicators			
			19814000			Testing Efficiency	Spread of Virus	Treatment Efficacy	Impact of Measures
	Week		Number of Tests	Positive Cases	Mortality	Test Positivity Rate (TPR) %	Test Positivity Per Million (TPM)	Mortality Rate (MR)%	Death Per Million (DPM)
Lockdown: 1.0 (1)	1	6 - 11 April	1741	566	12	32.51	28.57	2.12	0.61
Lockdown: 1.0 (2)	2	12 - 18 April	10571	824	24	7.79	41.59	2.91	1.21
Lockdown: 2.0 (1)	3	19 - 25 April	13236	732	11	5.53	36.94	1.50	0.56
Lockdown: 2.0 (2)	4	26 Apr - 02 May	11706	1497	10	12.79	75.55	0.67	0.50
Lockdown: 3.0 (1)	5	03 - 09 May	26016	2420	4	9.30	122.14	0.17	0.20
Lockdown: 3.0 (2)	6	10 - 16 May	46619	2791	61	5.99	140.86	2.19	3.08
Lockdwon: 4.0 (1)	7	17 - 22 May	33886	3663	113	10.81	184.87	3.08	5.70
Lockdwon: 4.0 (2)	8	24 - 30 May	36866	5131	155	13.92	258.96	3.02	7.82
Unlock: 1.0 (1)	9	31 May - 06 June	40134	9105	345	22.69	459.52	3.79	17.41
Unlock: 1.0 (2)	10	7 - 13 June	36366	11304	510	31.08	570.51	4.51	25.74
Unlock: 1.0 (3)	11	14 - 20 June	68670	17788	861	25.90	897.75	4.84	43.45
Unlock: 1.0 (4)	12	21 - 27 June	126427	23442	446	18.54	1183.10	1.90	22.51
Delhi: Consolidated			452238	79263	2552	17.53	4000.35	3.22	128.80
Mega Cities: Consolidated			No Data	109214	7811	No Data	No Data	4.10	103
Pan India: Consolidated			8807451	512358	15921	5.82	385	3.11	11.96
Club of nations having over 100K COVID Cases as on 30 June 2020						7.66	2625	5.04	132

Analysis of Club of nations having 100K COVID Cases

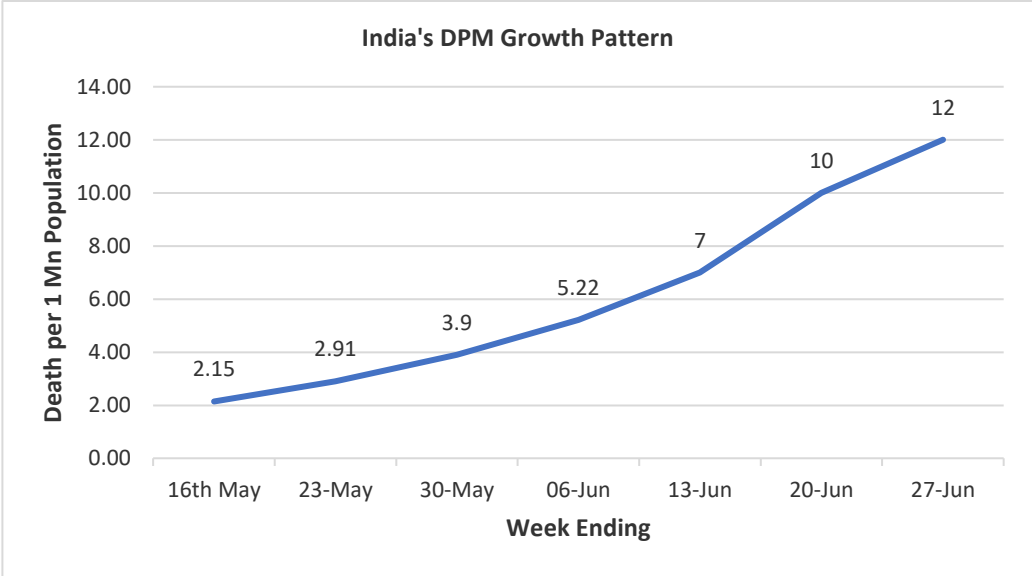
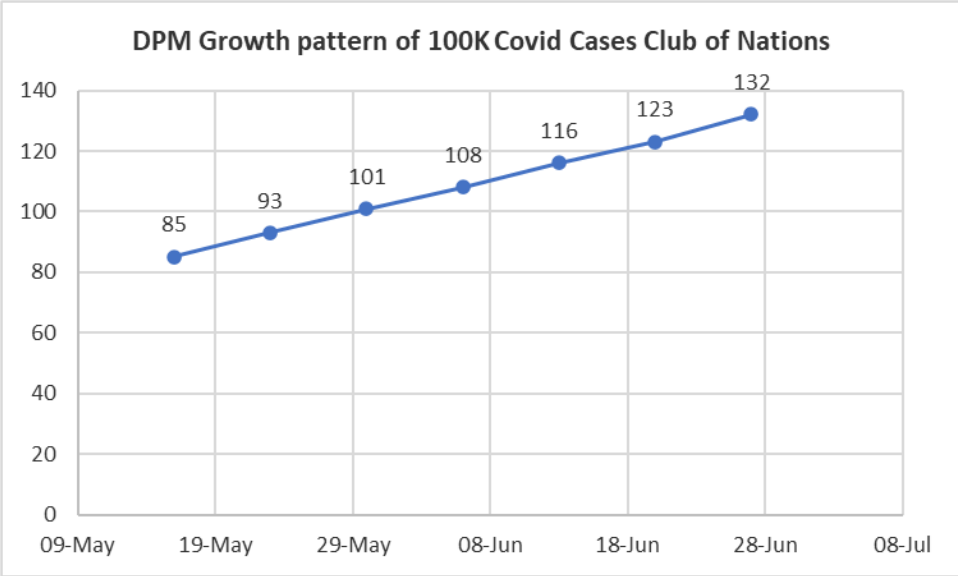
Analysis of Quality of Health Index and India's Ranking along with nations having over 100K COVID Cases

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Quality of Health: UNDP				COVID Impact Status as on 30 June 2020 (1900 hr)						
Ranking	Country	Physicians / 10000 Pn	Hospital Beds / 10000 Pn	Population	Tests	Cases	Deceased	Tests / Mn Pop	Cases / Mn Pop	Death / Mn Pop
4	Germany	42	83	83763806	54,12,655	1,95,399	9,041	64,618	2,333	108
15	USA	26	29	330854064	332,03,107	26,84,266	1,28,857	1,00,356	8,113	389
15	UK	28	28	67858826	92,90,215	3,11,965	43,575	1,36,905	4,597	642
25	Spain	41	30	46753443	51,62,909	2,96,050	28,346	1,10,428	6,332	606
26	France	32	65	65262729	13,84,633	1,64,260	29,813	21,216	2,517	457
29	Italy	41	34	60468295	53,41,837	2,27,662	34,744	88,341	3,765	575
42	Chile	11	22	19103405	10,96,443	2,75,999	5,575	57,395	14,448	292
49	Russia	40	82	145929848	195,62,440	6,47,849	9,320	1,34,054	4,439	64
59	Turkey	18	27	84267248	33,31,158	1,98,613	5,115	39,531	2,357	61
65	Iran	11	15	83906701	16,66,587	2,27,662	10,817	19,862	2,713	129
79	Brazil	21	22	212442762	30,70,447	13,73,006	58,406	14,453	6,463	275
82	Peru	13	16	32934728	16,61,324	2,82,365	9,504	50,443	8,573	289
152	Pakistan	10	6	220673722	12,83,092	1,90,823	4,304	5,814	865	20
36	Saudi Arabia	24	27	34787354	16,39,314	1,61,005	1,649	47,124	4,628	47
135	Bangladesh	14	5	164645344	7,69,460	1,45,483	1,847	4,673	884	11
13	Canada	26	27	37733476	27,21,685	1,03,918	8,566	72,129	2,754	227
129	India	8	7	1378937377	86,08,654	5,73,598	17,008	6243	416	12
Total				3070323128	105205960	8059923	406487	34265	2625	132
India's share (%)				45	8	7	4	Average of nations with 100K cases		

3 neighbours – India, Bangladesh, and Pakistan common factors: **Low** : Tests, Positivity, and Fatality (Per 1 Mn population)

Comparison of DPM Growth Pattern



Districts with high mortality

Selection Criteria: District with 10+ COVID Deaths with any one of the following:

1. 10 and above deaths per million population (DPM)
2. 7-day moving average fatality growth rate above 40%
3. 30-Day moving average fatality growth rate above 150%

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Andhra Pradesh	Kurnool	DPM above 10	13
Andhra Pradesh	Krishna	DPM above 10	12
Andhra Pradesh	Krishna	CFR above 4 (%)	4
Andhra Pradesh	Guntur	Fatality-7-Day-40-above (%)	55
Andhra Pradesh	Kurnool	Fatality-7-Day-40-above (%)	58
Andhra Pradesh	Krishna	Fatality-7-Day-40-above (%)	61

State	District(s)	Category	Value
Gujarat	Vadodara	DPM above 10	26
Gujarat	Surat	DPM above 10	24
Gujarat	Gandhinagar	DPM above 10	20
Gujarat	Aravalli	DPM above 10	17
Gujarat	Patan	DPM above 10	10
Gujarat	Panchmahal	CFR above 4 (%)	9
Gujarat	Aravalli	CFR above 4 (%)	9
Gujarat	Patan	CFR above 4 (%)	9
Gujarat	Bhavnagar	CFR above 4 (%)	5
Gujarat	Mehsana	CFR above 4 (%)	5
Gujarat	Gandhinagar	CFR above 4 (%)	4

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Haryana	Gurugram	DPM above 10	55
Haryana	Faridabad	DPM above 10	39
Haryana	Sonipat	DPM above 10	11
Haryana	Sonipat	Fatality-7-Day-40-above (%)	60
Haryana	Gurugram	Fatality-7-Day-40-above (%)	41
Haryana	Gurugram	Fatality-30-Day-150-above (%)	1975
Haryana	Sonipat	Fatality-30-Day-150-above (%)	1500
Haryana	Faridabad	Fatality-30-Day-150-above (%)	610

State	District(s)	Category	Value
Jammu & Kashmir	Shopian	DPM above 10	38
Jammu & Kashmir	Kulgam	DPM above 10	28
Jammu & Kashmir	Srinagar	DPM above 10	17
Jammu & Kashmir	Baramulla	DPM above 10	15
Jammu & Kashmir	Kulgam	Fatality-30-Day-150-above (%)	200

State	District(s)	Category	Value
Karnataka	Bidar	DPM above 10	11
Karnataka	Ballari	Fatality-7-Day-40-above (%)	400
Karnataka	Kalaburagi	Fatality-7-Day-40-above (%)	55
Karnataka	Ballari	Fatality-30-Day-150-above (%)	900
Karnataka	Bidar	Fatality-30-Day-150-above (%)	217

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Madhya Pradesh	Indore	DPM above 10	67
Madhya Pradesh	Bhopal	DPM above 10	40
Madhya Pradesh	Ujjain	DPM above 10	35
Madhya Pradesh	Burhanpur	DPM above 10	30
Madhya Pradesh	Khandwa	DPM above 10	13
Madhya Pradesh	Ujjain	CFR above 4 (%)	8
Madhya Pradesh	Sagar	CFR above 4 (%)	6
Madhya Pradesh	Burhanpur	CFR above 4 (%)	6
Madhya Pradesh	Khandwa	CFR above 4 (%)	6
Madhya Pradesh	Khargone	CFR above 4 (%)	5
Madhya Pradesh	Indore	CFR above 4 (%)	5
Madhya Pradesh	Dewas	CFR above 4 (%)	5

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Maharashtra	Palghar	DPM above 10	76
Maharashtra	Thane	DPM above 10	74
Maharashtra	Pune	DPM above 10	72
Maharashtra	Aurangabad	DPM above 10	61
Maharashtra	Solapur	DPM above 10	55
Maharashtra	Jalgaon	DPM above 10	48
Maharashtra	Akola	DPM above 10	40
Maharashtra	Raigad	DPM above 10	36
Maharashtra	Nashik	DPM above 10	34
Maharashtra	Ratnagiri	DPM above 10	15
Maharashtra	Satara	DPM above 10	14
Maharashtra	Pune	CFR above 4 (%)	35
Maharashtra	Other States	CFR above 4 (%)	19
Maharashtra	Solapur	CFR above 4 (%)	9
Maharashtra	Jalgaon	CFR above 4 (%)	7

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Maharashtra	Dhule	CFR above 4 (%)	7
Maharashtra	Buldhana	CFR above 4 (%)	6
Maharashtra	Nashik	CFR above 4 (%)	6
Maharashtra	Latur	CFR above 4 (%)	6
Maharashtra	Akola	CFR above 4 (%)	5
Maharashtra	Aurangabad	CFR above 4 (%)	5
Maharashtra	Palghar	CFR above 4 (%)	5
Maharashtra	Amravati	CFR above 4 (%)	5
Maharashtra	Ratnagiri	CFR above 4 (%)	5
Maharashtra	Satara	CFR above 4 (%)	5
Maharashtra	Nanded	CFR above 4 (%)	4
Maharashtra	Palghar	Fatality-7-Day-40-above (%)	157
Maharashtra	Nashik	Fatality-7-Day-40-above (%)	50
Maharashtra	Buldhana	Fatality-7-Day-40-above (%)	140
Maharashtra	Palghar	Fatality-30-Day-150-above (%)	479
Maharashtra	Buldhana	Fatality-30-Day-150-above (%)	300
Maharashtra	Jalna	Fatality-30-Day-150-above (%)	300
Maharashtra	Latur	Fatality-30-Day-150-above (%)	275
Maharashtra	Thane	Fatality-30-Day-150-above (%)	153

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Punjab	Amritsar	DPM above 10	15
Punjab	Amritsar	CFR above 4 (%)	4
Punjab	Sangrur	Fatality-7-Day-40-above (%)	100
Punjab	Amritsar	Fatality-30-Day-150-above (%)	375

State	District(s)	Category	Value
Rajasthan	Jaipur	DPM above 10	24
Rajasthan	Bharatpur	DPM above 10	13
Rajasthan	Kota	DPM above 10	11
Rajasthan	Jodhpur	DPM above 10	11
Rajasthan	Other state	CFR above 4 (%)	23
Rajasthan	Bikaner	CFR above 4 (%)	5
Rajasthan	Jaipur	CFR above 4 (%)	5
Rajasthan	Bikaner	Fatality-7-Day-40-above (%)	86
Rajasthan	Bharatpur	Fatality-30-Day-150-above (%)	357
Rajasthan	Bikaner	Fatality-30-Day-150-above (%)	225

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Tamil Nadu	Chengalpattu	DPM above 10	29
Tamil Nadu	Madurai	DPM above 10	16
Tamil Nadu	Madurai	Fatality-7-Day-40-above (%)	150
Tamil Nadu	Kancheepuram	Fatality-7-Day-40-above (%)	80
Tamil Nadu	Viluppuram	Fatality-7-Day-40-above (%)	63
Tamil Nadu	Chengalpattu	Fatality-7-Day-40-above (%)	67
Tamil Nadu	Madurai	Fatality-30-Day-150-above (%)	567
Tamil Nadu	Viluppuram	Fatality-30-Day-150-above (%)	550
Tamil Nadu	Kancheepuram	Fatality-30-Day-150-above (%)	500
Tamil Nadu	Chengalpattu	Fatality-30-Day-150-above (%)	436

State	District(s)	Category	Value
Telangana	Unknown	CFR above 4 (%)	47

Districts with high score on parameters related to Mortality

State	District(s)	Category	Value
Uttar Pradesh	Meerut	DPM above 10	23
Uttar Pradesh	Agra	DPM above 10	20
Uttar Pradesh	Gautam Buddha Nagar	DPM above 10	13
Uttar Pradesh	Ghaziabad	DPM above 10	11
Uttar Pradesh	Jhansi	CFR above 4 (%)	11
Uttar Pradesh	Meerut	CFR above 4 (%)	8
Uttar Pradesh	Agra	CFR above 4 (%)	7
Uttar Pradesh	Aligarh	CFR above 4 (%)	5
Uttar Pradesh	Firozabad	CFR above 4 (%)	5
Uttar Pradesh	Moradabad	CFR above 4 (%)	4
Uttar Pradesh	Basti	CFR above 4 (%)	4
Uttar Pradesh	Kanpur Nagar	CFR above 4 (%)	4
Uttar Pradesh	Lucknow	Fatality-7-Day-40-above (%)	50
Uttar Pradesh	Jhansi	Fatality-7-Day-40-above (%)	45
Uttar Pradesh	Varanasi	Fatality-7-Day-40-above (%)	45
Uttar Pradesh	Ghaziabad	Fatality-30-Day-150-above (%)	456
Uttar Pradesh	Hapur	Fatality-30-Day-150-above (%)	450
Uttar Pradesh	Lucknow	Fatality-30-Day-150-above (%)	350
Uttar Pradesh	Bulandshahr	Fatality-30-Day-150-above (%)	300
Uttar Pradesh	Basti	Fatality-30-Day-150-above (%)	275
Uttar Pradesh	Varanasi	Fatality-30-Day-150-above (%)	220
Uttar Pradesh	Kanpur Nagar	Fatality-30-Day-150-above (%)	214
Uttar Pradesh	Jhansi	Fatality-30-Day-150-above (%)	167
Uttar Pradesh	Gautam Buddha Nagar	Fatality-30-Day-150-above (%)	163
Uttarakhand	Dehradun	DPM above 10	12
Uttarakhand	Dehradun	Fatality-30-Day-150-above (%)	200
West Bengal	Howrah	DPM above 10	19
West Bengal	South 24 Parganas	Fatality-30-Day-150-above (%)	213

High Positivity Districts

Selection Criteria: District with 10+ COVID Deaths with any one of the following:

1. 300+ Positive cases per million population
2. 7-day moving average growth rate of Positive cases above 30%
3. 30-Day moving average growth rate of positive case above 160%

Districts with high score on parameters related to Case Positivity

State	District(s)	Category	Value
Andhra Pradesh	Kurnool	Positivity / MN above 300	415
Andhra Pradesh	Guntur	7-Day-Above-30 %	49
Andhra Pradesh	Kurnool	7-Day-Above-30 %	35

State	District(s)	Category	Value
Arunachal Pradesh	Namsai	7-Day-Above-30 %	150
Arunachal Pradesh	Tawang	7-Day-Above-30 %	100
Arunachal Pradesh	West Siang	7-Day-Above-30 %	100
Arunachal Pradesh	Papum Pare	7-Day-Above-30 %	79

State	District(s)	Category	Value
Gujarat	Vadodara	Positivity / MN above 300	1164
Gujarat	Surat	Positivity / MN above 300	698
Gujarat	Gandhinagar	Positivity / MN above 300	448
Gujarat	Surat	7-Day-Above-30 %	39
Gujarat	Anand	7-Day-Above-30 %	32

State	District(s)	Category	Value
Haryana	Gurugram	Positivity / MN above 300	3348
Haryana	Faridabad	Positivity / MN above 300	1837
Haryana	Sonipat	Positivity / MN above 300	798
Haryana	Faridabad	7-Day-Above-30 %	58
Haryana	Sonipat	7-Day-Above-30 %	40
Haryana	Faridabad	30-Day-Above-160 %	436
Haryana	Sonipat	30-Day-Above-160 %	231
Haryana	Gurugram	30-Day-Above-160 %	200

State	District(s)	Category	Value
Jammu & Kashmir	Shopiyan	Positivity / MN above 300	2742
Jammu & Kashmir	Kulgam	Positivity / MN above 300	1788
Jammu & Kashmir	Baramulla	Positivity / MN above 300	794
Jammu & Kashmir	Srinagar	Positivity / MN above 300	665
Jammu & Kashmir	Baramulla	7-Day-Above-30 %	37
Jammu & Kashmir	Srinagar	7-Day-Above-30 %	32

State	District(s)	Category	Value
Karnataka	Kalaburagi	Positivity / MN above 300	531
Karnataka	Bidar	Positivity / MN above 300	326
Karnataka	Ballari	7-Day-Above-30 %	56
Karnataka	Ballari	30-Day-Above-160 %	1059

Districts with high score on parameters related to Case Positivity

State	District(s)	Category	Value
Maharashtra	Thane	Positivity / MN above 300	2791
Maharashtra	Palghar	Positivity / MN above 300	1517
Maharashtra	Raigad	Positivity / MN above 300	1233
Maharashtra	Aurangabad	Positivity / MN above 300	1176
Maharashtra	Akola	Positivity / MN above 300	755
Maharashtra	Jalgaon	Positivity / MN above 300	663
Maharashtra	Solapur	Positivity / MN above 300	579
Maharashtra	Nashik	Positivity / MN above 300	562
Maharashtra	Ratnagiri	Positivity / MN above 300	332
Maharashtra	Nagpur	Positivity / MN above 300	306
Maharashtra	Satara	Positivity / MN above 300	305
Maharashtra	Palghar	7-Day-Above-30 %	50
Maharashtra	Raigad	7-Day-Above-30 %	43
Maharashtra	Thane	7-Day-Above-30 %	40
Maharashtra	Dhule	7-Day-Above-30 %	38
Maharashtra	Aurangabad	7-Day-Above-30 %	38
Maharashtra	Nashik	7-Day-Above-30 %	37
Maharashtra	Jalgaon	7-Day-Above-30 %	32
Maharashtra	Palghar	30-Day-Above-160 %	227
Maharashtra	Jalgaon	30-Day-Above-160 %	191
Maharashtra	Dhule	30-Day-Above-160 %	187

State	District(s)	Category	Value
Manipur	Kamjong	7-Day-Above-30 %	176
Manipur	Chandel	7-Day-Above-30 %	171
Manipur	Tamenglong	7-Day-Above-30 %	161
Manipur	Kangpokpi	7-Day-Above-30 %	82
Manipur	Kakching	7-Day-Above-30 %	76
Manipur	Senapati	7-Day-Above-30 %	65
Manipur	Thoubal	7-Day-Above-30 %	61
Manipur	Ukhrul	7-Day-Above-30 %	43

State	District(s)	Category	Value
Meghalaya	Unknown	7-Day-Above-30 %	200
Meghalaya	South West Garo Hills	7-Day-Above-30 %	40

State	District(s)	Category	Value
Nagaland	Zunheboto	7-Day-Above-30 %	400
Nagaland	Kohima	7-Day-Above-30 %	291
Nagaland	Dimapur	7-Day-Above-30 %	113
Nagaland	Phek	7-Day-Above-30 %	100
Nagaland	Peren	7-Day-Above-30 %	93

Districts with high score on parameters related to Case Positivity

State	District(s)	Category	Value
Punjab	Amritsar	Positivity / MN above 300	350
Punjab	Jalandhar	Positivity / MN above 300	313
Punjab	Sangrur	7-Day-Above-30 %	78
Punjab	Ludhiana	7-Day-Above-30 %	50
Punjab	Sangrur	30-Day-Above-160 %	249
Punjab	Ludhiana	30-Day-Above-160 %	220

State	District(s)	Category	Value
Tripura	Khowai	7-Day-Above-30 %	74
Tripura	Dhalai	Positivity / MN above 300	537

State	District(s)	Category	Value
Tamil Nadu	Chengalpattu	Positivity / MN above 300	1921
Tamil Nadu	Madurai	Positivity / MN above 300	1365
Tamil Nadu	Kancheepuram	Positivity / MN above 300	421
Tamil Nadu	Madurai	7-Day-Above-30 %	168
Tamil Nadu	Kancheepuram	7-Day-Above-30 %	54
Tamil Nadu	Viluppuram	7-Day-Above-30 %	39
Tamil Nadu	Chengalpattu	7-Day-Above-30 %	36
Tamil Nadu	Madurai	30-Day-Above-160 %	470
Tamil Nadu	Kancheepuram	30-Day-Above-160 %	239
Tamil Nadu	Chengalpattu	30-Day-Above-160 %	186

State	District(s)	Category	Value
West Bengal	Howrah	Positivity / MN above 300	512
West Bengal	South 24 Parganas	7-Day-Above-30 %	50
West Bengal	North 24 Parganas	7-Day-Above-30 %	34
West Bengal	South 24 Parganas	30-Day-Above-160 %	267

Strategic Classification of States

Key Healthcare Demographic features

Parameters	Empowered Action Group (EAG) States	Mega States	Micro States	Union Territories	Mega Cities
Average medical expenses (Rs.) during hospital stay per case of hospitalization	18600	20300	9300	24800	Part of Mega States
Avg medical exp (Rs.) incurred in 15 days per spell of ailment for non-hospitalised treatment	738	581	888	647	Part of Mega States
% of children (0-5 yrs) having received any immunization (Rural)	97	97	96	96	Part of Mega States
% of children (0-5 yrs) having received any immunization (Urban)	98	98	98	98.5	Part of Mega States

Key Healthcare Demographic features

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Parameters	Empowered Action Group (EAG) States	Mega States	Micro States	Union Territories	Pan India
PPRA - Percentage of Persons that Responded as Ailing (PPRA) during a 15-day period (%)	<u>5</u>	10	<u>2.75</u>	5.9	7.5
% Share of Government Hospitals	48	42	81	62	42
% Share of Private Hospitals	48	54	17.5	31	55
Number per 1000 of persons treated as in-patient during last 365 days	20	37	31	32	29
Average medical expenses (Rs.) during hospital stay per case of hospitalization	18600	20300	9300	24800	20135
Avg medical exp (Rs.) incurred in 15 days per spell of ailment for non-hospitalised treatment	738	581	888	680	636

Strategic Classification of Regions

Parameters	Empowered Action Group (EAG) States	Mega States	Micro States	Union Territories	Mega Cities
Number of States / UTs	9 States classified by Government of India. The key indicators are: High infant and maternal fatality mortality	12 major States in India with high degree of Public Health Infrastructure and contribution to GDP	8 North-Eastern States along Goa	7 Union Territories including Delhi)	7 Cities - Ahmedabad, Bengaluru,, Chennai, Hyderabad. Kolkata, Mumbai, and <u>New Delhi</u>
% ge of Population and Land area	50%	47%	1.5%	1.76%	Part of Mega States
% of Total COVID Cases in India	18%	32%	0.25%	10.6%	39%
% ge share of Total COVID tests conducted in India	30 – 32%	55 – 60%	1.5 – 2 %	8.5%	Part of Mega States
% ge share of Total COVID Positive patients death in India (Delhi deceased figure added to Mega City group)	18%	47%	5%	0	30%

Strategic Classification of Regions

JEEVAN RAKSHE
PROTECTING LIVES

Empowered Action Group (EAG) States*	Mega States	Micro States	Mega Cities	Union Territories
Assam	Andhra Pradesh	Tripura	Ahmedabad	Dadra & Nagar Haveli
Bihar	Gujarat	Manipur	Bengaluru	Chandigarh
Chhattisgarh	Haryana	Mizoram	Chennai	Daman & Diu
Jharkhand	Himachal Pradesh	Nagaland	Hyderabad	Puducherry
Madhya Pradesh	Jammu & Kashmir	Meghalaya	Kolkata	Delhi
Orissa	Karnataka	Goa	Mumbai	Andaman & Nicobar
Rajasthan	Kerala	Sikkim	New Delhi	Lakshadweep
Uttarakhand	Maharashtra	Arunachal Pradesh		
Uttar Pradesh	Punjab			
	Tamil Nadu			
	Telangana			
	West Bengal			

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Uttarakhand	Maharashtra	Arunachal Pradesh		
Uttar Pradesh	Punjab			
	Tamil Nadu			
	Telangana			
	West Bengal			

Strategic Classification of Regions

Parameters	Empowered Action Group (EAG) States	Mega States	Micro States	Union Territories	Mega Cities
Number of States / UTs	9 States classified by Government of India. The key indicators are: High infant and maternal fatality mortality	12 major States in India with high degree of Public Health Infrastructure and contribution to GDP	8 North-Eastern States along Goa	7 Union Territories including Delhi)	7 Cities - Ahmedabad, Bengaluru,, Chennai, Hyderabad. Kolkata, Mumbai, and <u>New Delhi</u>
% ge of Population and Land area	50%	47%	1.5%	1.76%	Part of Mega States
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Dedication to the Nation

PHFI – Proxima Pandemic & Epidemic Management System (PPEMS) is a joint development of Public Health Foundation of India (PHFI) and Proxima. PPEMS provides customised dashboard for respective stakeholders.

Over last 12 weeks, PPEMS has been tested with the publicly available COVID 19 data. The system provides sharper insights on the emerging pattern of the Pandemic and systematically highlights regions which needs immediate and specific attention.

PPEMS is the voluntary efforts of researchers and analysts at PHFI and Proxima in dedication to the nation

Initiative intent and disclaimer

1. This initiative is a voluntary initiative of PHFI and Proxima as part of Project Jeevan Rakshe in dedication to the nation.
2. This initiative does not involve any kind of commercial value proposition to any of the partner institutions or to the individuals involved
3. The data collated and analysed based on secondary data. The primary sources are:
<https://www.mohfw.gov.in/> <https://www.covid19india.org/> www.google.com; www.wikipedia.org;
<https://www.worldometers.info/coronavirus/#countries>
4. The user of this presentation is advised to revalidate the shared data from competent authorised agencies before using for any other purpose.

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Thank you