



**COVID-19 OUTBREAK CONTROL AND PREVENTION STATE CELL
HEALTH & FAMILY WELFARE DEPARTMENT
GOVT. OF KERALA**

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Analytical report 16th April – 30th April

Kerala's fight against COVID pandemic is the fight of people. In order to leverage the strengths of peoples' involvement, strong governance from Panchayath to State and involvement of women, volunteers, various social organizations as a long-term measure, it is important to strengthen preparedness based on the principle of '**WORKING AROUND COVID**'.

We appeal to all to follow the guidelines and practice healthy behaviour, which will not only help to tackle COVID but also many other communicable diseases in coming months especially during monsoons.

GENERAL GUIDELINES

- Maintain SMS (Social Distancing, Mask and Sanitize) and remain in ventilated environment
- Protect the elderly and the vulnerable- observe reverse quarantine
- COVID-19 vaccines protect people from getting infected and becoming severely ill and significantly reduce the likelihood of hospitalization and death.
- All those eligible for COVID vaccination should take the appropriate dose of the vaccine without delay
- Additional precautionary dose is available for those who have taken 2 doses and completed nine months since 2nd dose for >60 yrs, Health Care Workers, and people with comorbidities.
- **Non-vaccinated people with comorbidities have higher chances of severe illness and death. Hence people with comorbidities should receive vaccination and always follow COVID appropriate behaviour. Avoid social gathering. Remain in reverse quarantine by limiting avoidable social interactions.**

In post vaccination phase, Viral infections will keep happening at constant intervals, due to waning immunity with or without emerging variants with immune escape.

The key to future of preparedness are as follows -

- 1) effective public health measures - masks and ventilation, which should become a social habit
- 2) Protecting the vulnerable- elderly and with comorbidities with additional doses of vaccine. Now the 3rd dose at cost are available and hence the clinician can decide. At least the willing states should be allowed heterologous 3rd dose of vaccine as a research and take evidence based further scale up
- 3) effective, balanced public health communication (so people don't panic, while they do what needs to be done)
- 4) Baseline surveillance and early warning using genome sequencing. NCDC to share analytical report of the country and state at least weekly.
- 5) Focus on conversion rate of positive patients getting admitted and ensure early diagnosis and treatment
- 6) The mortality rate of each wave is expected to come down (until there is a significant variant which can change the immune reaction / response and therefore disease severity- this would be largely determined by non-spike variants).
- 7) A graded alert and risk assessment for infection and response was worked out from Jan 22 effectively in Kerala by developing 'Threshold matrix' to do health interventions and non-pharmacological interventions in district and sub district level.

It made easy for people and system to have a set of dos and don'ts, checklists and preparedness without disrupting normal life.

The key is preparing and adjusting to be living with COVID19, while minimising mortality.

8) Most importantly Min of H&FW Govt of India requested to share COWIN data dump to States and UTs for use to do specific interventions with elderly and people with comorbidity.

9) Post Covid clinics and management

Summary of new COVID-19 cases (last 2weeks)

Positive cases	Deaths declared daily in the last 2 weeks	Number of deaths declared as per appeal mechanism	Total tests done
4581	26	490	181446

Cumulative Summary of new COVID-19 cases

Total Positive cases	Total No of Deaths declared	Total No of deaths declared as per appeal mechanism	Total tests done
65,41,728	69,068	29,460	471,10,315

Summary of cases and deaths for past 2 weeks

DISTRICT	New Cases Declared	Death declared Daily	Deaths declared through Appeal provision	Total deaths
Thiruvananthapuram	817	5	23	28
Kollam	225	4	82	86
Pathanamthitta	256	0	22	22
Alappuzha	169	0	12	12
Kottayam	578	4	19	23
Idukki	149	1	21	22
Ernakulam	1236	3	109	112
Thrissur	335	2	26	28
Palakkad	99	3	22	25
Malappuram	86	0	89	89
Kozhikode	418	2	24	26
Wayanad	47	0	7	7
Kannur	146	2	20	22
Kasaragod	20	0	14	14
TOTAL	4581	26	490	516

Analytical report April 16-April 30

- During **April 16-April 30, the average active cases were 1815** out of them an average of around 3.6% only were admitted in oxygen beds and 2 % were in ICU.
- 1,81,446 tests were done during this period.
- The average test positivity rate during this period was 2.57%.
- During this period there was a increase **of around 117 new cases only compared to previous fortnight (April 1-15).**
- The **growth rate in new cases is 11% (an increase of 225 cases only)** during this week (April 24-30) compared to the previous week (April 17- 23).
- The number of active patients, those admitted in hospitals, and oxygen support has increased by 11%, 11%, 11% respectively, whereas in ICU decreased by 14% in this week compared to previous week.
- **Vaccination**

State Summary Category Wise as on 30-04-22						
Priority Group	1st Dose		2nd Dose		Precaution Dose*	
Health Care Worker	555770	100%	510207	92%	219695	48%
Front Line Worker	571885	100%	536458	94%	155669	33%
≥ 60 Years	5962662	101%	5439426	92%	1122964	39%
45-59 Years	6939757	96%	6271078	87%	25309	1%
18-44 Years	12920585	96%	10711840	80%	3,014	1%
Total (18+)	26,950,659	101%	23,469,009	88%	1,526,651	25%
15-17 years	1,222,915	80%	760,939	50%		
12-14 years	199,705	20%	23,864	2%		
Doses Administered	54,153,742					

Covid cases continue to decrease in Kerala with decrease in hospitalisation, ICU admission and deaths.

Summary of new cases, recovered cases and COVID-19 deaths

Date	New Case	Daily Recovered	Total Deaths	Routine declared deaths	Appeal deaths
16-04-22	214	349	63	1	62
17-04-22	279	236	12	1	11
18-04-22	209	252	22	1	21
19-04-22	355	191	53	2	51
20-04-22	332	256	48	5	43
21-04-22	315	242	31	0	31
22-04-22	300	217	38	1	37
23-04-22	281	203	24	1	23
24-04-22	290	199	47	0	47
25-04-22	255	325	26	4	22
26-04-22	341	228	36	0	36
27-04-22	347	300	14	2	12
28-04-22	412	275	45	2	43
29-04-22	337	353	36	4	32
30-04-22	314	273	21	2	19

- All daily reports in the prescribed formats are sent to NCDC regularly.
- In post vaccination phase, metric to understand epidemic is done based on conversion rate of positive patients needing hospitalization.
- For any disease handling, the health system preparedness determines the outcomes. From the experience of all waves handling the State has taken all measures to handle any eventuality.
- People need not get misguided by the rumours and incorrect information. Right from the 1st day of covid case detection, the Department has been informing all the details to people and officials at all levels. The state has shared the guidelines, formats of reporting etc to then Secretary Ministry of H&FW, Govt of India.
- NCDC has been requested repeatedly to share national and state genome sequencing analytical report weekly to the states so as to understand the variants and other aspects.
- COWIN data management unit at Min of H&FW Govt of India has been requested for providing 'data dump' of the state to the state every day through API. This will enable the States to take pinpointed measures with the specific target groups.

Annexure-1: Table of links to documents, guidelines, and websites

Dashboard	https://dashboard.kerala.gov.in/
Daily Bulletin	http://dhs.kerala.gov.in/ & E2%80%8D/
Guidelines and Advisories	http://dhs.kerala.gov.in/ & E2%80%8D & E2%80%8D/
Awareness materials	https://www.dropbox.com/sh/l2h2n9hu737lea3/AAD43CHbedUZa8PUY9v3m0Wa?dl=0
Posters	http://dhs.kerala.gov.in/photo-gallery/
COVID-19 Jagratha	https://covid19jagratha.kerala.nic.in/
E Sanjeevani	https://esanjeevaniopd.in
NHM Kerala	https://arogyakeralam.gov.in/
Directorate of Health Services	https://dhs.kerala.gov.in/
Directorate of Medical Education	http://www.dme.kerala.gov.in/
Department of Health and Family Welfare	https://health.kerala.gov.in/
Training and IEC videos	https://www.youtube.com/c/keralahealthonlinetraining

Annexure-2: District Psychosocial support Helpline numbers

District	COVID help line numbers
Thiruvananthapuram	9846854844
Kollam	0474 2740166, 8281086130
Pathanamthitta	8281113911
Alappuzha	4792344474
Kottayam	9539355724
Idukki	04862226929, 9496886418
Ernakulam	04842351185, 9846996516
Thrissur	04872383155, 8281100729, 8086007999
Palakkad	04912533323
Malappuram	7593843617, 7593843625
Kozhikode	9495002270
Wayanad	9400348670
Kannur	04972734343, 9495142091
Kasaragod	9072574748, 9447447888

District Helpline Numbers will be available from 9am to 4 pm.

State Helpline Numbers DISHA 0471-2552056 and 1056 (Toll Free Number) will be available 24x7

