



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

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**Date: 16/12/2021
Time: 02:00 PM**

The daily COVID-19 bulletin of the Department of Health and Family Welfare, Government of Kerala summarizes the COVID-19 situation in Kerala. The bulletin also contains links to various important documents, guidelines, and websites for references.

OUR HEALTH OUR RESPONSIBILITY

- *Even after vaccination , follow COVID appropriate behaviour.*
- *Maintain a distance of at least two metres with all people all the time.*
- *Always wear clean face mask appropriately everywhere all the time*
- *Perform hand hygiene after touching objects and surfaces all the time.*
- *Perform hand hygiene before and after touching your face.*
- *Observe cough and sneeze hygiene*
- *Avoid unnecessary travel, social interaction*
- *Protect the elderly and the vulnerable- Observe reverse quarantine*
- **PEOPLE WITH MULTIPLE COMORBIDITIES , IF DETECTED COVID POSITIVE SHOULD GET ADMITTED IN THE HOSPITAL IMMEDIATELY AND DO NOT REMAINED IN HOME ISOLATION**
- *Infection prevention by following Covid appropriate behaviour got strengthened with introduction of COVID vaccination.*

Covid 19 status- Analytical Note

- 97% of the eligible population vaccinated with a single dose of vaccine (2,59,39,073) and 72.6% with a double dose (1,94,01,141) till December 16.
- Kerala is the state with highest rate of Vaccination/ Million- 1270053. The state has vaccinated more than 97% of people aged more than 45 years with a single dose and 81% with double dose*. (*Target recalculated)
- People have been cooperating we appeal to the 2nd dose eligible people to take their second dose of Covishield/ Covaxin without delay. Both the vaccines are effective.

- **As per today's data, among the 3404 positives, 2948 persons were eligible for vaccination. 268 were vaccinated with single-dose and 1776 were fully vaccinated.**
- **904 persons had no history of vaccination. This sub cohort needs to be followed and among them people having morbidity are advised to access health care in a Hospital. All vaccinated people should follow covid appropriate behaviour.**
- **Non vaccinated people with co morbidity have higher chances of mortality based on the mortality analysis. Hence, especially people with comorbidities should be careful. All must follow Covid appropriate behaviors.**
- **COVID-19 vaccines protect people from getting infected and become severely ill, and significantly reduce the likelihood of hospitalization and death.**
- **During December 9-December 15, the average active cases were 37,679 out of them an average of around 1.9% only were admitted in oxygen beds and 1.5% were in ICU. During this period there was a decrease of around 6143 new cases. The growth rate in newly declared cases decreased by 19% during the same week compared to the previous week. The number of active patients, those admitted in hospitals, field hospitals, ICU , ventilator and oxygen support beds has reduced by 12%, 9%, 7%, 14%, 13% and 11% respectively in this week compared to previous week. This shows that rate of hospitalization and serious cases are showing a decreasing trend.**
- For any disease control program, active case finding is important. The state is doing appropriate testing. However, there is an apprehension regarding test positivity rate. It is hereby explained that test positivity rate indicates the infection. There are two specific issues all may understand i.e. **contracting infection** and because of contracting infection **the disease manifestation**. The World over post vaccination phase, contracting infection to disease manifestation is examined as **CONVERSION RATE** to decide the severity of pandemic. The data as on date suggests the conversion rate is stable because the People are following instructions, taking vaccines. However, it can be further improved with cooperation from all i.e. positive person having comorbidities should not delay their arrival in Hospital and take treatment as per the treatment protocols.
- Out of total 34,171 cases of infection only 8% of the active cases are admitted either in hospital/Field hospitals. This percentage is more or less constant and that indicates that the progression toward disease of the person who is infected is not very alarming and appropriate care and support is being given to patients. The patients who arrive late in the hospital even though having morbidity are the majority patients in the hospitals and Diabetes and Hypertension together being the most common cause of patient death. Therefore, we request people with co morbidities once detected with covid infection to get hospitalized in time.
- Based on the Covid positive data during June, July and August, 6% of the Covid positive patients had taken a single dose of Covid 19 vaccination and 3.6% had taken two doses of covid 19 vaccination. This indicates that vaccinated people may get infected, even though it is very less. It indicates that post vaccination immunity is effective in preventing infection. Vaccinated people are advised to consult Doctor only when symptomatic. Vaccinated people should follow covid appropriate behaviour.
- Symptomatic non-Vaccinated people may do RTPCR test. Antigen testing is only for emergency purpose. Non vaccinated people with co-morbidities to do testing by RTPCR and consult doctor.
- Repeat RTPCR is not needed among the people who are detected COVID positive in the previous 3 months. All young person detected positive and at home isolation should do blood sugar test.

PART- 1 SUMMARY OF COVID CASES AND DEATH

Table 1. Summary of COVID-19 cases till 15/12/2021

Positive cases	Recovered patients	New persons in Quarantine / Isolation	New Persons in Home, Institution quarantine	New persons in Hospital Isolation	Total no of Deaths reported	No of deaths declared as per appeal G.O.(Rt) No.2110/2021/H&FWD (B)	No of pending deaths declaration of the cases up to 18 June 2021 (offline period of death reporting) As per G.O.(Rt) No.2219/2021/H&FWD Dated 14 October (C)
5204422	5124899	8917	8714	203	43626	9819	3779

Table 2. Summary of new COVID-19 cases (last 24 hours)

Positive cases	Recovered patients	New persons in Quarantine / Isolation	New Persons in Home, Institution quarantine	New persons in Hospital Isolation	No of Deaths reported daily (A)	No of deaths declared as per appeal G.O.(Rt) No.2110/2021/H&FWD (B)	No of pending deaths declaration of the cases up to 18 June 2021 (offline period of death reporting) As per G.O.(Rt) No.2219/2021/H&FWD Dated 14 October (C)
3404	4145	9961	9755	206	36	284	0

Table 3. Cumulative summary as on 16/12/2021

Total Positive cases	Active cases	Total Recovered	Total persons in Quarantine / Isolation	Persons in Home/Institution quarantine	Persons in Hospital Isolation	Total No of Deaths (D)	Total No of deaths declared as per appeal G.O.(Rt) No.2110/2021/H&FWD (E)	Total No of pending deaths declaration of the cases up to 18 June 2021 (offline period of death reporting) As per G.O.(Rt) No.2219/2021/H&FWD Dated 14 October (F)
5207826	34171	5129044	147204	143110	4094	43946	10103	3779

Table 4. District wise summary of Cumulative cases, Active cases, and New positive cases

District	Positive Cases declared today	Declared Negative today	Positive cases admitted in the district
Thiruvananthapuram	633	711	5967
Kollam	215	330	1691
Pathanamthitta	135	208	722
Alappuzha	131	115	520
Kottayam	262	374	3606
Idukki	80	139	1733
Ernakulam	501	639	5475
Thrissur	269	353	3185
Palakkad	128	81	552
Malappuram	147	151	1745
Kozhikode	523	581	4870
Wayanad	79	75	1206
Kannur	227	308	2045
Kasaragod	74	80	854
Total	3404	4145	34171

Table 5. District wise Death Cases through online and offline mode - post scrutiny status

District	No of Deaths reported daily (A)	No of deaths declared through appeal G.O.(Rt) No.2110/2021/H&F WD Dated 29 September (B)	No of pending deaths declaration of the cases up to 18 June 2021 (offline period of death reporting) As per G.O.(Rt) No.2219/2021/H&FWD Dated 14 October (C)	Death Cases approved today (A+B+C)
Thiruvananthapuram	4	3	0	7
Kollam	2	0	0	2
Pathanamthitta	0	0	0	0
Alappuzha	0	170	0	170
Kottayam	1	0	0	1
Idukki	0	19	0	19
Ernakulam	15	0	0	15
Thrissur	4	0	0	4
Palakkad	1	5	0	6
Malappuram	1	72	0	73
Kozhikode	3	0	0	3
Wayanad	0	0	0	0
Kannur	5	15	0	20
Kasaragod	0	0	0	0
Total	36	284	0	320

- The list of Track A is mentioned in the Bulletin
- The list of Track B and Track C will be very long as we are declaring cumulative cases. These lists are available with the DMO and can be verified on online portal.
- <https://covid19.kerala.gov.in/deathinfo/covidDeathDeclarationList.jsp>

Table 6. Summary of contact or travel history of COVID-19 cases since 4th May 2020

Total cases	<i>5207327</i>
Cases with history of International/Interstate travel	<i>63254</i>
Cases with history of contact	<i>5144073</i>

Table 7. Summary of contact/travel history of new COVID-19 cases reported in last 24 hours

Total cases	<i>3404</i>
Cases with history of International/Interstate travel	<i>8</i>
Cases with history of contact	<i>3197</i>
Cases with no history of travel or contact	<i>199</i>

Table 8. Details of COVID-19 positive deaths in the last 24 hours

Sl no.	District	Name	Place	Age	Gender	Death Date
1	Thiruvananthapuram	Mary Jeya John Rose		51	Female	15-12-2021
2	Thiruvananthapuram	Nasimudheen	Karavaram	65	Male	13-12-2021
3	Thiruvananthapuram	Ramachandran P G	Thiruvananthapuram	84	Male	03-12-2021
4	Thiruvananthapuram	Shareefa Beevi	Madavoor	73	Female	05-12-2021
5	Kollam	Jaleel	Alayaman	53	Male	07-12-2021
6	Kollam	Krishna Pillai	Ummannoor	90	Male	04-12-2021
7	Kottayam	Viswanathan	Mundakayam	81	Male	15-12-2021
8	Ernakulam	Antony	Kumbalam	53	Male	15-12-2021
9	Ernakulam	Balan	Kuzhuppilly	74	Male	28-11-2021
10	Ernakulam	Chandra Bose	Kochi	72	Male	30-11-2021
11	Ernakulam	Kalyani	Marady	82	Female	03-12-2021
12	Ernakulam	Kochurani	Vadakkerala	51	Female	10-11-2021
13	Ernakulam	Kunjachan	Keerampara	82	Male	05-12-2021
14	Ernakulam	Raghava Menon	Kochi	89	Male	08-07-2021
15	Ernakulam	Rugmini Rajappan	Avoly	85	Female	07-12-2021
16	Ernakulam	Saraswathy	Vadavucode-Puthencruz	85	Female	03-12-2021
17	Ernakulam	Sathi	Kizhakkambalam	87	Female	02-11-2021
18	Ernakulam	Sunitha	Kalamassery	54	Female	24-11-2021
19	Ernakulam	Thevan	Kizhakkambalam	70	Male	03-12-2021
20	Ernakulam	Thilakan P R	Alangad	67	Male	12-12-2021
21	Ernakulam	Vasu P K	Kochi	87	Male	07-12-2021
22	Ernakulam	Vijayamma	Chottanikara	76	Female	24-11-2021

23	Thrissur	Mohammed Ali	Venkitangu	72	Male	12-12-2021
24	Thrissur	Ranadev V R	Padiyoor	59	Male	12-12-2021
25	Thrissur	Thankamma	Poyya	74	Female	06-12-2021
26	Thrissur	Vijayan	Kadavalloor	51	Male	15-12-2021
27	Palakkad	Rafeek	Pirayiri	52	Male	15-12-2021
28	Malappuram	Mundi	Kondotty	81	Female	03-10-2021
29	Kozhikode	Ayishakutty	Naduvannur	62	Female	13-12-2021
30	Kozhikode	Jameela M P	Koduvally	61	Female	14-12-2021
31	Kozhikode	Mohammed C K	Atholi	80	Male	12-12-2021
32	Kannur	Gopalan	Padiyoor	75	Male	02-12-2021
33	Kannur	Khadeeja	Sreekandapuram	48	Female	28-11-2021
34	Kannur	Nafeesa	Narath	87	Female	27-11-2021
35	Kannur	Pramod	Pinarayi	55	Male	28-11-2021
36	Kannur	Sareena P M	Mattannur	65	Female	01-12-2021

Detailed list is available with the respective District Medical office (Health)

Table 9. Summary of critical patients

Patients in ICUs	535
Patients on Ventilator support	221

**The data shown contains ICU and Ventilator data from both government and private hospitals*

PART- II COVID-19 TESTING

Table 10. Cumulative number of samples tested

Cumulative Samples Sent	Cumulative routine + Sentinel samples	Airport surveillance	CB NAAT	True NAT	POCT PCR	RT LAMP	Antigen Assay
40700470	17050412	77321	125609	843212	102153	39281	22468796

Table 11. Details of new COVID-19 samples in the last 24 hours

Samples Sent	Routine + Sentinel Samples (PCR)	CB NAAT	True NAT	POCT PCR	RT LAMP	Antigen Assay
56580	36932	296	937	1332	289	16794

PART-III SURVEILLANCE

Table 12. District wise distribution of persons under quarantine and isolation

District	Persons under observation as on today	Persons under home/institutional quarantine as on today	Total persons under hospital Isolation as on today	Persons hospitalized today
Thiruvananthapuram	28633	27364	1269	30
Kollam	8541	8310	231	30
Pathanamthitta	3928	3527	401	7
Alappuzha	3940	3888	52	11
Kottayam	14291	13945	346	10
Idukki	2981	2882	99	3
Ernakulam	21053	20524	529	19
Thrissur	4207	4032	175	31
Palakkad	9629	9553	76	7
Malappuram	10401	10228	173	11
Kozhikode	16712	16451	261	9
Wayanad	9834	9765	69	10
Kannur	8112	7947	165	25
Kasaragod	4942	4694	248	3
Total	147204	143110	4094	206

Table 13. Summary of Travel surveillance 16/12/2021

Mode of Travel	Cumulative number of Passengers
International airport	2662917
Total	2662917

PART-IV PSYCHOSOCIAL SUPPORT

'Ottakalla Oppamundu' is a program for providing Psychosocial support to the people in quarantine, isolation, school children and other categories of population as well as to the community in general. **847** Mental Health Personnel including Psychiatrists, Psychiatric Social Workers, Clinical Psychologists, and Counsellors are working and have given psychosocial support.

Table.14. Psychosocial support provided through the program "Ottakalla Oppamundu"

No. of Psychosocial workers	847
Total Psychosocial support calls made to persons in quarantine/ isolation.	73,50,670
Total psychosocial support follow-up calls made	32,12,102
Total Post COVID calls	11,33,087
Total calls made to persons under treatment for mental illnesses, migrant labourers, differently abled children, elderly persons staying alone	3,48,860
Total Psychosocial support calls to school children	9,79,471
Total psychosocial support calls to health care workers	64,194
Total Psychosocial support calls received in helpline numbers	91,289
Total calls to all categories of Persons	1,31,79,673

PART-V ANNEXURES

Annexure-1: List of Hotspots as on 16/12/2021

Panchayaths and Urban Wards with WIPR >10			
Sl.No	District	LSG	Ward No
1	Ernakualm	Kalloorkkadu	8, 7
2	Ernakualm	Pothanicadu	3
3	Ernakualm	Aikaranad	4
4	Ernakualm	Keerambra	10
5	Wayanad	Vythiri	8
<i>As per G.O(Rt) No.643/2021/DMD dated 18.09.2021</i>			

DISTRICT WISE ABSTRACT

Sl. No	Name of District	WIPR (> 10)	
		No. of LSGs	No. of Wards
1	Ernakulam	4	5
2	Wayanad	1	1
Total		5	6

References
1.Thiruvananthapuram: Nil
2.Kollam: Nil
3.Pathanamthitta: Nil
4.Kottayam: Nil
5.Alappuzha: Nil
6.Idukki: Nil
7.Ernakulam: 3804/2020/D2 dated 07.12.2021
8.Thirissur: Nil
9.Palakkad: Nil
10.Malappuram: Nil
11.Kozhikkode: Nil
12.Wayanad: DCWYD/2671/2021/DM5 dated 04.12.2021
13.Kannur: Nil
14.Kasaragod: Nil

Annexure-2: District Covid 19 Control Room Numbers Oxygen War Room Numbers

District	Covid 19 Control Room Numbers	Oxygen War Room Numbers
Thiruvananthapuram	9188610100, 1077, 0471 277 9000	7592939426, 7592949448
Kollam	0474 2797609, 2794006, 8589015556	75920 03857
Alappuzha	0477 2239999, 2238642, 2238651	7594041555
Pathanamthitta	0468 2222515, 0468 2228220	1077, 8547715558
Idukki	18004255640, 0486 2232220, 2233118	18004255640, 04862233118
Kottayam	9188610014, 9188610016, 0481 2304800, 0481 2583200, 0481 2566100, 0481 2566700, 0481 2561300	0481 256 7390
Ernakulam	0484 2368702, 0484 2368802, 0484 2368902 Guest Control Room 9072303275, 9072303276 WhatsApp Number 9400021077	75940 46167
Thrissur	9400066921, 9400066922, 9400066923	9400063430, 7034099935
Palakkad	0491 251 0580, 04912510583 0491 251 0575, 0491 251 0576, 251 0574	0491251 0577, 8848902376
Malappuram	0483 2737858, 0483 2737857, 0483 2733251, 0483 2733252, 2733253	0483 2952950
Calicut	0495 2371471, 0495 2376063 Collectorate 0495 2371002	75940-01419, 7594001485
Kannur	0497 2700194, 2713437, 9400066062, 9400066616	8281899687
Wayanad	04936 202343, 04936 202375	9526831678
Kasaragod	9946000493, 9946000293	9645002811

Annexure-3: Table of links to documents, guidelines, and websites

Dashboard	https://dashboard.kerala.gov.in/
Daily Bulletin	http://dhs.kerala.gov.in/ഡെയിലി-ബുള്ളറ്റിന്%E2%80%8D/
Guidelines and Advisories	http://dhs.kerala.gov.in/ജാഗ്രത-നിര്%E2%80%8Dദേശങ്ങളു%E2%80%8D/
Awareness materials	https://www.dropbox.com/sh/l2h2n9hu737lea3/AAD43CHbedUZa_8PUY9v3m0Wa?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-4: 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	48723831553
Palakkad	4912533323
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*