



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

[www.health.kerala.gov.in](http://www.health.kerala.gov.in)

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**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 POSTIVE 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**

- 97.4% of the eligible population vaccinated with a single dose of vaccine (2,60,28,362) and 75.6% with a double dose (2,01,89,808) till December 22.
- Kerala is the state with highest rate of Vaccination/ Million- 1294646. The state has vaccinated more than 97% of people aged more than 45 years with a single dose and 82% with double dose\*. (\*Target recalculated)
- People have been cooperating we appeal to the 2<sup>nd</sup> 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 3205 positives, 2767 persons were eligible for vaccination. 243 were vaccinated with single-dose and 1664 were fully vaccinated.**
- **860 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 15-December 21, the average active cases were 31,591 out of them an average of around 1.9% only were admitted in oxygen beds and 1.7% were in ICU. During this period there was a decrease of around 4411 new cases. The growth rate in newly declared cases decreased by 17% 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 18%, 12%, 31%, 8%, 1% and 19% 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 27,842 cases of infection only 8.8% 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 21/12/2021**

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)
5222567	5148703	7185	7001	184	45155	11189	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)
3205	3012	7873	7680	193	36	347	0

**Table 3. Cumulative summary as on 22/12/2021**

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)
5225772	27842	5151715	134146	130126	4020	45538	11536	3779

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

<b>District</b>	<b>Positive Cases declared today</b>	<b>Declared Negative today</b>	<b>Positive cases admitted in the district</b>
Thiruvananthapuram	645	782	5230
Kollam	224	123	1043
Pathanamthitta	186	143	385
Alappuzha	136	91	555
Kottayam	253	131	3107
Idukki	120	176	1339
Ernakulam	575	502	4636
Thrissur	194	186	2381
Palakkad	77	43	723
Malappuram	181	120	1599
Kozhikode	313	349	3599
Wayanad	87	83	962
Kannur	157	224	1462
Kasaragod	57	59	821
<b>Total</b>	<b>3205</b>	<b>3012</b>	<b>27842</b>

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

<b>District</b>	<b>No of Deaths reported daily (A)</b>	<b>No of deaths declared through appeal G.O.(Rt) No.2110/2021/H&amp;F WD Dated 29 September (B)</b>	<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&amp;FWD Dated 14 October (C)</b>	<b>Death Cases approved today (A+B+C)</b>
Thiruvananthapuram	0	32	0	32
Kollam	1	167	0	168
Pathanamthitta	5	0	0	5
Alappuzha	0	6	0	6
Kottayam	3	33	0	36
Idukki	0	16	0	16
Ernakulam	7	81	0	88
Thrissur	4	0	0	4
Palakkad	2	10	0	12
Malappuram	0	1	0	1
Kozhikode	2	0	0	2
Wayanad	0	0	0	0
Kannur	12	1	0	13
Kasaragod	0	0	0	0
<b>Total</b>	<b>36</b>	<b>347</b>	<b>0</b>	<b>383</b>

- 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	5225273
Cases with history of International/Interstate travel	63334
Cases with history of contact	5161939

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

Total cases	3205
Cases with history of International/Interstate travel	10
Cases with history of contact	3054
Cases with no history of travel or contact	141

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

Sl no.	District	Name	Place	Age	Gender	Death Date
1	Kollam	Thankamma	Melila	75	Female	15-09-2021
2	Pathanamthitta	Krishnan Nair	Pramadam	90	Male	18-12-2021
3	Pathanamthitta	Kuttappan T A	Ranni Pazhavangady	71	Male	17-12-2021
4	Pathanamthitta	Rajasekharan Nair	Vechoochira	65	Male	18-12-2021
5	Pathanamthitta	Sathyapalan N G	Vallikkodu	75	Male	20-12-2021
6	Pathanamthitta	Sosamma John	Koipram	73	Female	14-12-2021
7	Kottayam	Joy	Poonjar	65	Male	17-12-2021
8	Kottayam	Ouseph Ulahannan	Meenadom	91	Male	10-09-2021
9	Kottayam	Ponnamma Varghese	Pampady	67	Female	19-09-2021
10	Ernakulam	A B Mohanan	Kochi	69	Male	28-11-2021
11	Ernakulam	Annam Ithapiri	Thrippunithura	86	Female	25-10-2021
12	Ernakulam	Govinda Panicker K K	Kizhakkambalam	76	Male	23-08-2021
13	Ernakulam	Mariyamma P K	North Paravur	70	Female	08-08-2021
14	Ernakulam	M K Pareeth	Nellikuzhy	75	Male	20-06-2021
15	Ernakulam	Rajabhadreswary	Mazhuvannur	88	Female	19-08-2021
16	Ernakulam	Varkey	Koovappady	72	Male	18-10-2021
17	Thrissur	Pathmanaban Nair	Aloor	72	Male	21-12-2021
18	Thrissur	Ramakrishnan M M	Meloor	63	Male	19-12-2021
19	Thrissur	Soudhamini	Thalikulam	71	Female	16-12-2021
20	Thrissur	Vareed	Thrishur	75	Male	26-11-2021
21	Palakkad	Janaki Amma	Kulukkallur	90	Female	17-12-2021

22	Palakkad	Shakthivel	Kongad	32	Male	18-12-2021
23	Kozhikode	Kunhisooopi	Perambra	78	Male	20-12-2021
24	Kozhikode	Nani	Vadakara	91	Female	19-12-2021
25	Kannur	Abdul Rahman	Thalassery	66	Male	03-12-2021
26	Kannur	Anil Kumar	Alakode	58	Male	06-12-2021
27	Kannur	Gouri Pp	Malappattam	52	Female	05-12-2021
28	Kannur	Joseph	Alakode	68	Male	17-12-2021
29	Kannur	Lilly Scariya	Naduvil	88	Female	08-12-2021
30	Kannur	Narayanan	Azheekode	96	Male	08-12-2021
31	Kannur	Padmanabhan Nambiar	Ancharakandy	77	Male	06-12-2021
32	Kannur	Sadanandan Nair M P	Chittariparamba	85	Male	05-12-2021
33	Kannur	Sarada	Iritty	73	Female	06-12-2021
34	Kannur	Thankamma	Ulikkal	89	Female	09-12-2021
35	Kannur	Yeshodha M	Kunhimangalam	85	Female	09-12-2021
36	Kannur	Yesodha	Thalassery	90	Female	07-12-2021

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

**Table 9. Summary of critical patients**

Patients in ICUs	<b>513</b>
Patients on Ventilator support	<b>190</b>

*\*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
<b>41009842</b>	<b>17259527</b>	<b>77321</b>	<b>127153</b>	<b>848591</b>	<b>108278</b>	<b>40314</b>	<b>22554972</b>

**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
<b>56388</b>	<b>38402</b>	<b>282</b>	<b>947</b>	<b>960</b>	<b>113</b>	<b>15684</b>

**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	25854	24617	1237	27
Kollam	6545	6308	237	21
Pathanamthitta	5702	5538	164	6
Alappuzha	3907	3860	47	8
Kottayam	13567	13249	318	0
Idukki	2613	2528	85	1
Ernakulam	15941	15451	490	24
Thrissur	4078	3586	492	23
Palakkad	8777	8697	80	9
Malappuram	9273	9116	157	10
Kozhikode	15883	15634	249	23
Wayanad	8768	8694	74	16
Kannur	7848	7715	133	20
Kasaragod	5390	5133	257	5
<b>Total</b>	<b>134146</b>	<b>130126</b>	<b>4020</b>	<b>193</b>

**Table 13. Summary of Travel surveillance 22/12/2021**

Mode of Travel	Cumulative number of Passengers
International airport	2749844
<b>Total</b>	<b>2749844</b>



## 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. **842** 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	<b>842</b>
Total Psychosocial support calls made to persons in quarantine/ isolation.	<b>73,55,310</b>
Total psychosocial support follow-up calls made	<b>32,12,102</b>
Total Post COVID calls	<b>11,33,087</b>
Total calls made to persons under treatment for mental illnesses, migrant labourers, differently abled children, elderly persons staying alone	<b>3,48,860</b>
Total Psychosocial support calls to school children	<b>9,80,617</b>
Total psychosocial support calls to health care workers	<b>64,194</b>
Total Psychosocial support calls received in helpline numbers	<b>91,357</b>
<b>Total calls to all categories of Persons</b>	<b>1,31,85,527</b>

**PART-V ANNEXURES**

**Annexure-1: List of Hotspots as on 22/12/2021**

<b>Panchayaths and Urban Wards with WIPR &gt;10</b>			
<b>Sl.No</b>	<b>District</b>	<b>LSG</b>	<b>Ward No</b>
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**

<b>Sl. No</b>	<b>Name of District</b>	<b>WIPR (&gt; 10)</b>	
		<b>No. of LSGs</b>	<b>No. of Wards</b>
1	Ernakulam	4	5
2	Wayanad	1	1
<b>Total</b>		<b>5</b>	<b>6</b>

<b>References</b>
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	<a href="https://dashboard.kerala.gov.in/">https://dashboard.kerala.gov.in/</a>
Daily Bulletin	<a href="http://dhs.kerala.gov.in/ഡെയിലി-ബുള്ളറ്റിന്%E2%80%8D/">http://dhs.kerala.gov.in/ഡെയിലി-ബുള്ളറ്റിന്%E2%80%8D/</a>
Guidelines and Advisories	<a href="http://dhs.kerala.gov.in/ജാഗ്രത-നിര്%E2%80%8Dദേശങ്ങൾ%E2%80%8D/">http://dhs.kerala.gov.in/ജാഗ്രത-നിര്%E2%80%8Dദേശങ്ങൾ%E2%80%8D/</a>
Awareness materials	<a href="https://www.dropbox.com/sh/l2h2n9hu737lea3/AAD43CHbedUZa_8PUY9v3m0Wa?dl=0">https://www.dropbox.com/sh/l2h2n9hu737lea3/AAD43CHbedUZa_8PUY9v3m0Wa?dl=0</a>
Posters	<a href="http://dhs.kerala.gov.in/photo-gallery/">http://dhs.kerala.gov.in/photo-gallery/</a>
COVID-19 Jagratha	<a href="https://covid19jagratha.kerala.nic.in/">https://covid19jagratha.kerala.nic.in/</a>
E Sanjeevani	<a href="https://esanjeevaniopd.in">https://esanjeevaniopd.in</a>
NHM Kerala	<a href="https://arogyakeralam.gov.in/">https://arogyakeralam.gov.in/</a>

Directorate of Health Services	<a href="https://dhs.kerala.gov.in/">https://dhs.kerala.gov.in/</a>
Directorate of Medical Education	<a href="http://www.dme.kerala.gov.in/">http://www.dme.kerala.gov.in/</a>
Department of Health and Family Welfare	<a href="https://health.kerala.gov.in/">https://health.kerala.gov.in/</a>
Training and IEC videos	<a href="https://www.youtube.com/c/keralahealthonlinetraining">https://www.youtube.com/c/keralahealthonlinetraining</a>

#### 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*