



**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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**Date: 17/12/2021**

**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 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% of the eligible population vaccinated with a single dose of vaccine (2,59,57,155) and 73.2% with a double dose (1,95,58,921) till December 17.
- Kerala is the state with highest rate of Vaccination/ Million- 1274980. 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 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 3471 positives, 2990 persons were eligible for vaccination. 248 were vaccinated with single-dose and 1827 were fully vaccinated.
- 915 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 10-December 16, the average active cases were 36,768 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 6377 new cases. The growth rate in newly declared cases decreased by 21% 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 13%, 10%, 11%, 13%, 10% and 14% 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 32,433 cases of infection only 8.2% 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 16/12/2021**

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)
5207826	5129044	9961	9755	206	43946	10103	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)
3471	4966	9754	9586	168	22	221	0

**Table 3. Cumulative summary as on 17/12/2021**

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)
5211297	32433	5134010	143337	139318	4019	44189	10324	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	563	859	5653
Kollam	255	535	1411
Pathanamthitta	182	145	758
Alappuzha	164	72	606
Kottayam	262	561	3271
Idukki	115	166	1677
Ernakulam	680	760	5391
Thrissur	263	481	2877
Palakkad	92	71	573
Malappuram	166	93	1748
Kozhikode	354	728	4496
Wayanad	90	103	1189
Kannur	228	327	1937
Kasaragod	57	65	846
<b>Total</b>	<b>3471</b>	<b>4966</b>	<b>32433</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	1	17	0	18
Kollam	0	0	0	0
Pathanamthitta	1	0	0	1
Alappuzha	2	4	0	6
Kottayam	2	34	0	36
Idukki	5	0	0	5
Ernakulam	4	0	0	4
Thrissur	4	86	0	90
Palakkad	0	0	0	0
Malappuram	0	70	0	70
Kozhikode	0	0	0	0
Wayanad	2	2	0	4
Kannur	1	8	0	9
Kasaragod	0	0	0	0
<b>Total</b>	<b>22</b>	<b>221</b>	<b>0</b>	<b>243</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	<b>5210798</b>
Cases with history of International/Interstate travel	<b>63272</b>
Cases with history of contact	<b>5147526</b>

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

Total cases	<b>3471</b>
Cases with history of International/Interstate travel	<b>18</b>
Cases with history of contact	<b>3270</b>
Cases with no history of travel or contact	<b>183</b>

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

SI No.	District	Name	Place	Age	Gender	Death Date
1	Thiruvananthapuram	Gopinath C	Thiruvananthapuram	73	Male	16-12-2021
2	Pathanamthitta	Gopinatha Panicker	Kottanad	80	Male	13-12-2021
3	Alappuzha	Achuthan	Bharanikkavu	70	Male	13-12-2021
4	Alappuzha	Saji	Ala	55	Male	13-12-2021
5	Kottayam	Savithriamma K	Ettumanoor	83	Female	28-11-2021
6	Kottayam	Shaji Easo	Kangazha	57	Male	15-12-2021
7	Idukki	Celina Domanic	Rajakkad	47	Female	11-12-2021
8	Idukki	Karuppuswami	Peruvanthanam	68	Male	08-12-2021
9	Idukki	Parameswaran	Edavetty	79	Male	10-12-2021
10	Idukki	Ponnappan	Udumbannoor	67	Male	09-12-2021
11	Idukki	Varkey Mathew	Vandanmedu	74	Male	08-12-2021
12	Ernakulam	Kumaran M S	Muvattupuzha	75	Male	14-12-2021
13	Ernakulam	Mary Paulose	Kothattukulam	80	Female	11-12-2021
14	Ernakulam	Prasad P Nair	Thrikkakara	57	Male	14-12-2021
15	Ernakulam	Shibu	Muvattupuzha	51	Male	14-12-2021
16	Thrissur	Daisy	Chalakudy	58	Female	06-11-2021
17	Thrissur	Krishnankutty V S	Venkitangu	67	Male	14-12-2021
18	Thrissur	Manoharan	Chavakkad	65	Male	13-12-2021
19	Thrissur	Parasudharan	Parappookkara	73	Male	16-12-2021
20	Wayanad	Kumba Vellan	Thariode	78	Female	12-12-2021
21	Wayanad	Musthafa	Muttill	50	Male	13-12-2021
22	Kannur	Varkey P T	Kelakam	81	Male	24-11-2021

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

**Table 9. Summary of critical patients**

Patients in ICUs	525
Patients on Ventilator support	203

*\*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
40755185	17087790	77321	125848	844137	103003	39455	22483945

**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
54715	37378	239	925	850	174	15149

### 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	27709	26440	1269	30
Kollam	8528	8292	236	21
Pathanamthitta	4593	4231	362	3
Alappuzha	4222	4172	50	1
Kottayam	12548	12203	345	3
Idukki	2914	2815	99	1
Ernakulam	19726	19211	515	11
Thrissur	4173	3996	177	27
Palakkad	8922	8851	71	7
Malappuram	10201	10033	168	10
Kozhikode	16513	16260	253	10
Wayanad	10143	10079	64	13
Kannur	8158	8002	156	22
Kasaragod	4987	4733	254	9
<b>Total</b>	<b>143337</b>	<b>139318</b>	<b>4019</b>	<b>168</b>

**Table 13. Summary of Travel surveillance 17/12/2021**

Mode of Travel	Cumulative number of Passengers
International airport	2695650
<b>Total</b>	<b>2695650</b>

### PART-IV PSYCHOSOCIAL SUPPORT

**“OUR HEALTH OUR RESPONSIBILITY”**



**'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>73,52,904</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>9,79,981</b>
Total psychosocial support calls to health care workers	<b>64,194</b>
Total Psychosocial support calls received in helpline numbers	<b>91,322</b>
<b>Total calls to all categories of Persons</b>	<b>1,31,82,450</b>

**PART-V ANNEXURES**

**Annexure-1: List of Hotspots as on 17/12/2021**

<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%8Dദേശങ്ങളു%E2%80%8D/">http://dhs.kerala.gov.in/ജാഗ്രത-നിര്%E2%80%8Dദേശങ്ങളു%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**

<b>District</b>	<b>COVID help line numbers</b>
<b>Thiruvananthapuram</b>	9846854844
<b>Kollam</b>	0474 2740166, 8281086130
<b>Pathanamthitta</b>	8281113911
<b>Alappuzha</b>	4792344474
<b>Kottayam</b>	9539355724
<b>Idukki</b>	04862226929, 9496886418
<b>Ernakulam</b>	04842351185, 9846996516
<b>Thrissur</b>	48723831553
<b>Palakkad</b>	4912533323
<b>Malappuram</b>	7593843617, 7593843625
<b>Kozhikode</b>	9495002270
<b>Wayanad</b>	9400348670
<b>Kannur</b>	04972734343, 9495142091
<b>Kasaragod</b>	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*