



**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)

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

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**Date: 23/12/2021**

**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**

- 97.5% of the eligible population vaccinated with a single dose of vaccine (2,60,43,638) and 76% with a double dose (2,03,11,901) till December 23.
- Kerala is the state with highest rate of Vaccination/ Million- 1298494. 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 2514 positives, 2209 persons were eligible for vaccination. 170 were vaccinated with single-dose and 1358 were fully vaccinated.**
- **681 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 16-December 22, the average active cases were 30,535 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 19%, 11%, 35%, 7%, 4% and 17% 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 26,605 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 22/12/2021**

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)
5225772	5151715	7873	7680	193	45538	11536	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)
2514	3427	7055	6877	178	54	269	0

**Table 3. Cumulative summary as on 23/12/2021**

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)
5228286	26605	5155142	131345	127397	3948	45861	11805	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	458	841	4838
Kollam	145	199	987
Pathanamthitta	135	157	362
Alappuzha	117	72	539
Kottayam	258	197	3158
Idukki	65	62	1336
Ernakulam	369	593	4404
Thrissur	192	183	2272
Palakkad	66	60	693
Malappuram	111	165	1498
Kozhikode	305	479	3425
Wayanad	78	119	917
Kannur	166	248	1358
Kasaragod	49	52	818
<b>Total</b>	<b>2514</b>	<b>3427</b>	<b>26605</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	5	4	0	9
Kollam	2	0	0	2
Pathanamthitta	1	0	0	1
Alappuzha	0	61	0	61
Kottayam	10	0	0	10
Idukki	6	0	0	6
Ernakulam	8	0	0	8
Thrissur	2	116	0	118
Palakkad	2	34	0	36
Malappuram	0	47	0	47
Kozhikode	0	0	0	0
Wayanad	4	0	0	4
Kannur	14	7	0	21
Kasaragod	0	0	0	0
<b>Total</b>	<b>54</b>	<b>269</b>	<b>0</b>	<b>323</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	<i>5227787</i>
Cases with history of International/Interstate travel	<i>63352</i>
Cases with history of contact	<i>5164435</i>

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

Total cases	<i>2514</i>
Cases with history of International/Interstate travel	<i>18</i>
Cases with history of contact	<i>2358</i>
Cases with no history of travel or contact	<i>138</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	Antony	Maranallur	53	Male	17-12-2021
2	Thiruvananthapuram	Lissy	Manamboor	46	Female	22-12-2021
3	Thiruvananthapuram	Rajendrnn Unnithan	Ottoor	64	Male	21-12-2021
4	Thiruvananthapuram	Sathykumari S	Attingal	78	Female	20-12-2021
5	Thiruvananthapuram	Thankamani	Nagaroor	54	Female	22-12-2021
6	Kollam	Abdul Rehuman	Kulathupuzha	68	Male	14-12-2021
7	Kollam	Ismail Kunju	Kollam	82	Male	21-12-2021
8	Pathanamthitta	Chellamma	Kodumon	75	Female	18-12-2021
9	Kottayam	Abraham	Ayarkunnam	95	Male	22-12-2021
10	Kottayam	Eliamma	Marangattupally	68	Female	22-12-2021
11	Kottayam	Krishnamma K J	Melukavu	78	Female	21-12-2021
12	Kottayam	Prasad	Thrikkodithanam	50	Male	29-08-2021
13	Kottayam	Rajendra Kurup	Madappally	80	Male	19-12-2021
14	Kottayam	Shyla	Kaduthuruthy	52	Female	20-12-2021
15	Kottayam	Stephen Joseph	Vazhappally	66	Male	22-12-2021
16	Kottayam	Thomas Thomas	Vazhoor	69	Male	05-08-2021
17	Kottayam	Varkey	Akalakkunnam	95	Male	21-12-2021
18	Kottayam	Varkey K V	Kottayam	84	Male	17-12-2021
19	Idukki	Balakrishnapilla	Pampadumpara	83	Male	01-09-2021
20	Idukki	Kamamma Prabhakaran	Konnathady	76	Female	15-12-2021
21	Idukki	Mary Thomas	Manakkad	91	Female	21-12-2021

22	Idukki	Princy Vargheese	Udumbanchola	39	Female	20-12-2021
23	Idukki	Purushothaman	Udumbanchola	70	Male	21-12-2021
24	Idukki	Santhamma	Nedumkandom	52	Female	11-10-2021
25	Ernakulam	Annamma Paily	Kothattukulam	90	Female	09-12-2021
26	Ernakulam	Devasya Mathai	Keerampara	78	Male	08-08-2021
27	Ernakulam	Gangadharan Mr	Kochi	73	Male	20-12-2021
28	Ernakulam	K A George	Kochi	82	Male	22-12-2021
29	Ernakulam	Raphel P P	Chendamangalam	84	Male	15-12-2021
30	Ernakulam	Raveendran B	Ramamangalam	64	Male	20-12-2021
31	Ernakulam	Rossy Jacob	Kochi	73	Female	03-12-2021
32	Ernakulam	Thankamma	Palakuzha	76	Female	02-12-2021
33	Thrissur	Achuthan A K	Velur	86	Male	17-12-2021
34	Thrissur	Mathew	Chalakydy	70	Male	22-12-2021
35	Palakkad	Rabiyabeevi	Palakkad	85	Female	20-12-2021
36	Palakkad	Ramakrishnan	Ottappalam	70	Male	22-12-2021
37	Wayanad	George	Mananthavady	65	Male	18-12-2021
38	Wayanad	Gopalakrishnan	Sulthan Bathery	62	Male	16-12-2021
39	Wayanad	Karthiyani	Padinjaraathara	80	Female	14-08-2021
40	Wayanad	Sarojini	Edavaka	58	Female	20-12-2021
41	Kannur	Balan	Chembilode	74	Male	05-12-2021
42	Kannur	Chakki	Udayagiri	68	Female	13-12-2021
43	Kannur	Kadeesu C K	Muzhappilangad	85	Female	12-12-2021
44	Kannur	Kamalakshi	Vengad	80	Female	12-12-2021
45	Kannur	Karthyayani	Mattannur	71	Female	11-12-2021
46	Kannur	Meenakshi Amma	Panniyannur	93	Female	10-12-2021
47	Kannur	M K Abdul Azeez	Azheekode	77	Male	14-12-2021
48	Kannur	Nafeesa	Thalassery	68	Female	15-12-2021
49	Kannur	Prabhakaran K P	Mayyil	78	Male	14-12-2021
50	Kannur	Rameshan	Kannur	55	Male	03-12-2021
51	Kannur	Ramla O V	Kottayam	60	Female	16-12-2021
52	Kannur	Shylaja	Mangattidam	52	Female	11-12-2021
53	Kannur	S Thankamma	Cherupuzha	85	Female	12-12-2021
54	Kannur	Sudha P K	Taliparamba	51	Female	09-12-2021

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

**Table 9. Summary of critical patients**

Patients in ICUs	<b>491</b>
Patients on Ventilator support	<b>186</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>41065473</b>	<b>17297100</b>	<b>77321</b>	<b>127337</b>	<b>849431</b>	<b>110231</b>	<b>40442</b>	<b>22569925</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>55631</b>	<b>37573</b>	<b>184</b>	<b>840</b>	<b>1953</b>	<b>128</b>	<b>14953</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	25257	24020	1237	27
Kollam	6331	6108	223	14
Pathanamthitta	5965	5796	169	12
Alappuzha	3802	3746	56	8
Kottayam	12969	12670	299	4
Idukki	2452	2364	88	3
Ernakulam	15406	14926	480	8
Thrissur	3953	3465	488	25
Palakkad	8689	8630	59	5
Malappuram	9255	9103	152	14
Kozhikode	15463	15215	248	21
Wayanad	8832	8769	63	4
Kannur	7864	7736	128	30
Kasaragod	5107	4849	258	3
<b>Total</b>	<b>131345</b>	<b>127397</b>	<b>3948</b>	<b>178</b>

**Table 13. Summary of Travel surveillance 23/12/2021**

Mode of Travel	Cumulative number of Passengers
International airport	2759400
<b>Total</b>	<b>2759400</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>73,66,356</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>9,83,380</b>
Total psychosocial support calls to health care workers	<b>64,194</b>
Total Psychosocial support calls received in helpline numbers	<b>91,496</b>
<b>Total calls to all categories of Persons</b>	<b>1,31,99,475</b>

**PART-V ANNEXURES**

**Annexure-1: List of Hotspots as on 23/12/2021**

<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

*As per G.O(Rt) No.643/2021/DMD dated 18.09.2021*

**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*