



**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: 10/12/2021**

**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**

- 96.8% of the eligible population vaccinated with a single dose of vaccine (2,58,67,704) and 70% with a double dose (1,87,51,255) till December 10.
- Kerala is the state with highest rate of Vaccination/ Million- 1249850. The state has vaccinated more than 97% of people aged more than 45 years with a single dose and 78% 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 3972 positives, 3403 persons were eligible for vaccination. 392 were vaccinated with single-dose and 1995 were fully vaccinated.**
- **1016 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 3-December 9, the average active cases were 42,024 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 836 new cases. The growth rate in newly declared cases decreased by 3% 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 9%, 6%, 0.1%, 13%, 18% and 4% 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 39,341 cases of infection only 8.5% 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 9/12/2021**

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)
5183061	5099620	10346	10069	277	42239	8738	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)
3972	4836	10318	10060	258	31	309	0

**Table 3. Cumulative summary as on 10/12/2021**

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)
5187033	39341	5104456	161893	157300	4593	42579	9047	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	690	958	5967
Kollam	261	275	2093
Pathanamthitta	164	172	1081
Alappuzha	152	172	926
Kottayam	332	419	4230
Idukki	144	201	1955
Ernakulam	658	760	6288
Thrissur	352	491	3595
Palakkad	123	150	208
Malappuram	157	105	2102
Kozhikode	469	759	5817
Wayanad	105	76	1638
Kannur	278	236	2505
Kasaragod	87	62	936
<b>Total</b>	<b>3972</b>	<b>4836</b>	<b>39341</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	8	0	13
Kollam	1	94	0	95
Pathanamthitta	0	0	0	0
Alappuzha	8	14	0	22
Kottayam	2	10	0	12
Idukki	0	0	0	0
Ernakulam	7	14	0	21
Thrissur	4	83	0	87
Palakkad	2	24	0	26
Malappuram	0	20	0	20
Kozhikode	2	34	0	36
Wayanad	0	0	0	0
Kannur	0	4	0	4
Kasaragod	0	4	0	4
<b>Total</b>	<b>31</b>	<b>309</b>	<b>0</b>	<b>340</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>5186534</b>
Cases with history of International/Interstate travel	<b>63196</b>
Cases with history of contact	<b>5123338</b>

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

Total cases	<b>3972</b>
Cases with history of International/Interstate travel	<b>10</b>
Cases with history of contact	<b>3762</b>
Cases with no history of travel or contact	<b>200</b>

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

Sl no.	District	Name	Place	Age	Gender	Death Date
1	Thiruvananthapuram	Babu C	Athiyannoor	60	Male	09-12-2021
2	Thiruvananthapuram	Nabeesath	Thiruvananthapuram	55	Male	08-12-2021
3	Thiruvananthapuram	N Sivanandan	Kizhuvilam	82	Male	06-12-2021
4	Thiruvananthapuram	Rajendran Pillai	Pallikkal	61	Male	09-12-2021
5	Thiruvananthapuram	Sreedevi V	Anadu	43	Female	28-11-2021
6	Kollam	Ganapathy	Anchal	75	Male	04-12-2021
7	Alappuzha	Gopi	Thanneermukkam	74	Male	13-07-2021
8	Alappuzha	Haridevan K K	Alappuzha	74	Male	10-11-2021
9	Alappuzha	Ramachandran Nair	Nooranad	69	Male	12-07-2021
10	Alappuzha	Stephen	Vallikunnam	63	Male	17-07-2021
11	Alappuzha	Umaiba	Mannanchery	58	Female	14-10-2021
12	Alappuzha	Umaiba	Krishnapuram	65	Female	12-07-2021
13	Alappuzha	Valsala	Punnapra South	52	Female	15-07-2021
14	Alappuzha	Vasumathi	Mannanchery	78	Female	11-07-2021
15	Kottayam	Jacob A C	Panachikadu	73	Male	07-12-2021
16	Kottayam	Shobhana Devi	Karoor	57	Female	05-12-2021
17	Ernakulam	Ayyappan	Malayattoor-Neeleeswaram	75	Male	02-09-2021
18	Ernakulam	Joseph	Kochi	82	Male	31-08-2021
19	Ernakulam	Pathumma	Kumbalam	70	Female	20-08-2021

20	Ernakulam	Raju	Kothamangalam	61	Male	03-09-2021
21	Ernakulam	T K Rasheed	Kochi	65	Male	21-08-2021
22	Ernakulam	Treesa	Kochi	91	Female	08-10-2021
23	Ernakulam	Ummar	Vengola	75	Male	24-08-2021
24	Thrissur	Girijan	Thrishur	76	Male	26-07-2021
25	Thrissur	Madhusoodhanan	Perinjanam	76	Male	07-12-2021
26	Thrissur	Mohandas C P	Tholur	60	Male	05-12-2021
27	Thrissur	Sukumaran M S	Cherpu	70	Male	06-12-2021
28	Palakkad	Kochamma	Kannadi	80	Female	09-12-2021
29	Palakkad	Paru	Mathur	85	Female	08-12-2021
30	Kozhikode	Moidu	Ayancheri	72	Male	05-12-2021
31	Kozhikode	Raghava Kurupp	Perambra	74	Male	01-12-2021

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

**Table 9. Summary of critical patients**

Patients in ICUs	<b>559</b>
Patients on Ventilator support	<b>208</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>40346286</b>	<b>16814666</b>	<b>77321</b>	<b>123929</b>	<b>837294</b>	<b>89276</b>	<b>37674</b>	<b>22372440</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>66788</b>	<b>46755</b>	<b>279</b>	<b>1198</b>	<b>866</b>	<b>492</b>	<b>17198</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	29132	27863	1269	30
Kollam	8914	8608	306	33
Pathanamthitta	3306	2895	411	6
Alappuzha	3312	3257	55	7
Kottayam	20074	19711	363	13
Idukki	2810	2716	94	5
Ernakulam	24211	23611	600	31
Thrissur	5060	4866	194	26
Palakkad	13340	13196	144	20
Malappuram	10976	10772	204	14
Kozhikode	16915	16630	285	21
Wayanad	11867	11751	116	16
Kannur	7854	7558	296	27
Kasaragod	4122	3866	256	9
<b>Total</b>	<b>161893</b>	<b>157300</b>	<b>4593</b>	<b>258</b>

**Table 13. Summary of Travel surveillance 10/12/2021**

Mode of Travel	Cumulative number of Passengers
International airport	2615757
<b>Total</b>	<b>2615757</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. **776** 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>776</b>
Total Psychosocial support calls made to persons in quarantine/ isolation.	<b>73,31,265</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>9,75,592</b>
Total psychosocial support calls to health care workers	<b>64,194</b>
Total Psychosocial support calls received in helpline numbers	<b>91,050</b>
<b>Total calls to all categories of Persons</b>	<b>1,31,56,150</b>

**PART-V ANNEXURES**

**Annexure-1: List of Hotspots as on 10/12/2021**

<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	Idukki	Mariyapuram	3
2	Idukki	Kodikkulam	2
3	Idukki	Arakkulam	11
4	Ernakualm	Edavanakkadu	4
5	Ernakualm	Edakkattuvayal	8
6	Ernakualm	Paingottur	11
7	Ernakualm	Chittattukara	13
8	Ernakualm	Aluva (M)	26
9	Ernakualm	Njarakkal	9
10	Ernakualm	Kottuvalli	1
11	Ernakualm	Kalloorkkadu	9
12	Ernakualm	Puthenvelikkara	11, 17
13	Ernakualm	Palakkuzha	11
14	Thrissur	Athirappally	2
15	Thrissur	Kondazhy	14
16	Thrissur	Kuzhur	5, 6
17	Thrissur	Punnayoorkkulam	13
18	Wayanad	Thavinjal	13
19	Wayanad	Kottathara	13
<b>As per G.O(Rt) No.643/2021/DMD dated 18.09.2021</b>			

**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	Idukki	3	3
2	Ernakulam	10	11
3	Thrissur	4	5
4	Wayanad	2	2
<b>Total</b>		<b>19</b>	<b>21</b>

<b>References</b>
<i>1.Thiruvananthapuram: Nil</i>
<i>2.Kollam: Nil</i>
<i>3.Pathanamthitta: Nil</i>
<i>4.Kottayam: Nil</i>
<i>5.Alappuzha: Nil</i>
<i>6.Idukki: DCIDK/2584/2021/DM1 dated 20.11.2021</i>
<i>7.Ernakulam: 3804/2020/D2 dated 22.11.2021</i>
<i>8.Thirissur: DCTSR/H4/14476/2019 dated 22.11.2021</i>
<i>9.Palakkad: Nil</i>
<i>10.Malappuram: Nil</i>
<i>11.Kozhikkode: Nil</i>
<i>12.Wayanad: DCWYD/2671/2021/DM5 dated 20.11.2021</i>
<i>13.Kannur: Nil</i>
<i>14.Kasaragod: Nil</i>

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

<b>District</b>	<b>Covid 19 Control Room Numbers</b>	<b>Oxygen War Room Numbers</b>
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
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### 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

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

<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*