



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

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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

- 96.2% of the eligible population vaccinated with a single dose of vaccine (2,57,17,110) and 65.8% with a double dose (1,75,88,240) till December 2.
- Kerala is the state with highest rate of Vaccination/ Million- 1213053. The state has vaccinated more than 97% of people aged more than 45 years with a single dose and 76% 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 4700 positives, 4020 persons were eligible for vaccination. 504 were vaccinated with single-dose and 2304 were fully vaccinated.**
- **1212 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 November 25-December 1, the average active cases were 47,005 out of them an average of around 1.8% only were admitted in oxygen beds and 1.6% were in ICU. During this period there was a decrease of around 2705 new cases. The growth rate in newly declared cases decreased by 8% 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%, 11%, 30%, 10%, 8% and 10% 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 44,376 cases of infection only 7.5% 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 1/12/2021

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)
5147219	5061906	10415	10140	275	40535	7364	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)
4700	4128	15853	15538	315	66	254	0

Table 3. Cumulative summary as on 02/12/2021

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)
5151919	44376	5066034	155639	150837	4802	40855	7618	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	Other Districts
Thiruvananthapuram	850	648	7345	
Kollam	375	269	2701	Pathanamthitta - 5
Pathanamthitta	183	8	1622	Wayanad - 1
Alappuzha	215	166	1143	Pathanamthitta - 4
Kottayam	295	285	4026	
Idukki	159	157	2155	
Ernakulam	794	523	6907	
Thrissur	395	390	4100	
Palakkad	104	199	662	
Malappuram	136	206	2245	
Kozhikode	612	665	6092	
Wayanad	176	227	1971	
Kannur	309	291	2419	
Kasaragod	97	94	988	
Total	4700	4128	44376	

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	6	44	0	50
Kollam	4	0	0	4
Pathanamthitta	2	0	0	2
Alappuzha	2	6	0	8
Kottayam	11	0	0	11
Idukki	1	22	0	23
Ernakulam	12	0	0	12
Thrissur	4	83	0	87
Palakkad	0	31	0	31
Malappuram	9	0	0	9
Kozhikode	0	0	0	0
Wayanad	0	0	0	0
Kannur	15	60	0	75
Kasaragod	0	8	0	8
Total	66	254	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	5151420
Cases with history of International/Interstate travel	63071
Cases with history of contact	5088349

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

Total cases	4700
Cases with history of International/Interstate travel	18
Cases with history of contact	4477
Cases with no history of travel or contact	205

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

Sl no.	District	Name	Place	Age	Gender	Death Date
1	Thiruvananthapuram	Agiamma	Thiruvananthapuram	81	Female	03-10-2021
2	Thiruvananthapuram	Balakrishnan	Ottasekaramangalam	65	Male	29-11-2021
3	Thiruvananthapuram	Laila	Thiruvananthapuram	67	Female	23-11-2021
4	Thiruvananthapuram	Selvaraj	Malayinkeezhu	65	Male	29-11-2021
5	Thiruvananthapuram	Sirajudeen	Thiruvananthapuram	83	Male	21-11-2021
6	Thiruvananthapuram	Syamala	Kattakada	65	Female	29-11-2021
7	Kollam	Ayisha A	Perinad	9	Female	26-11-2021
8	Kollam	Bhaskara Pillai	Poothakkulam	87	Male	24-11-2021
9	Kollam	George T	Ummannoor	85	Male	30-11-2021
10	Kollam	Sreedharan	West Kallada	88	Male	27-11-2021
11	Pathanamthitta	M C Padmam	Omalloor	71	Female	26-11-2021
12	Pathanamthitta	Samma	Koipram	81	Female	07-11-2021
13	Alappuzha	Pariyathu Kunju P K	Ezhupunna	78	Male	29-11-2021
14	Alappuzha	Shareefa Beevi	Cheruthana	78	Female	30-11-2021
15	Kottayam	Aliyamma John	Panachikadu	77	Female	28-11-2021
16	Kottayam	Balachandran	Thidanadu	62	Male	30-11-2021
17	Kottayam	Devasia Mathai	Kadaplamattom	85	Male	15-11-2021
18	Kottayam	Kuttappan	Manimala	75	Male	30-11-2021
19	Kottayam	Mariyamma	Panachikadu	67	Female	30-11-2021
20	Kottayam	Mathay Varkey	Kangazha	90	Male	28-11-2021
21	Kottayam	Remani Joy	Kottayam	55	Female	29-11-2021

22	Kottayam	S Neelambran	Thrikkodithanam	73	Male	28-11-2021
23	Kottayam	Subaida	Meenachil	68	Female	28-11-2021
24	Kottayam	Suja	Vijayapuram	49	Female	30-11-2021
25	Kottayam	Vargheese	Mundakayam	76	Male	27-11-2021
26	Idukki	Kathreena	Vathikudy	91	Female	30-11-2021
27	Ernakulam	Beepathu	Kalamassery	61	Female	14-11-2021
28	Ernakulam	Chothy	Thuravoor	65	Male	25-11-2021
29	Ernakulam	Gangadharan	Rayamangalam	83	Male	19-10-2021
30	Ernakulam	Gopalan K K	Mazhuvannur	96	Male	26-11-2021
31	Ernakulam	Mary Jacob	Pothanikkad	67	Female	27-11-2021
32	Ernakulam	Moidheen T P	Perumbavoor	67	Male	12-11-2021
33	Ernakulam	Prabhakaran	Vadakkekara	91	Male	25-11-2021
34	Ernakulam	Sasidharan N P	Udayamperoor	79	Male	25-11-2021
35	Ernakulam	Sivani	Vadavucode-Puthencruz	65	Female	26-11-2021
36	Ernakulam	Sudhakaran	Cheranallur	70	Male	25-11-2021
37	Ernakulam	Thankappan	Avoly	88	Male	26-11-2021
38	Ernakulam	Vallon	Rayamangalam	80	Male	28-09-2021
39	Thrissur	Ayshumma	Vadakkekka	75	Female	12-11-2021
40	Thrissur	Maggy	Arimbur	71	Female	01-12-2021
41	Thrissur	Muhammed	Punnayoorkulam	76	Male	20-09-2021
42	Thrissur	Unni	Thrishur	58	Male	25-11-2021
43	Malappuram	Amina	Tirurangadi	80	Female	19-07-2021
44	Malappuram	Ashitha V	Edappal	40	Female	24-09-2021
45	Malappuram	Chakki	Pandikkad	85	Female	16-11-2021
46	Malappuram	Chathan Kotty	Koottilangadi	75	Female	16-11-2021
47	Malappuram	Janaki Ak	Morayur	86	Female	22-11-2021
48	Malappuram	Krishnan Kutty	Vettom	82	Male	15-08-2021
49	Malappuram	Mammu	Elamkulam	68	Male	26-11-2021
50	Malappuram	Pathummu	Thanoor	85	Female	13-08-2021
51	Malappuram	Ummer K P	Edapatta	72	Male	02-07-2021
52	Kannur	Asma	Eramam- Kuttoor	85	Female	17-11-2021
53	Kannur	Chathu A T	Pariyaram	73	Male	25-11-2021
54	Kannur	Gireesh Kumar	Kadannappalli- Panappuzha	59	Male	10-11-2021
55	Kannur	Ibrahim K	Kottayam	75	Male	04-08-2021
56	Kannur	John M C	Payyavoor	71	Male	16-11-2021
57	Kannur	Joshy	Alakode	57	Male	25-11-2021
58	Kannur	Kannan Vk	Iritty	85	Male	27-11-2021
59	Kannur	Kumaran	Panoor	80	Male	22-11-2021
60	Kannur	Kunjiraman	Payyannur	81	Male	24-11-2021
61	Kannur	Madhavi	Eramam- Kuttoor	83	Female	14-11-2021
62	Kannur	Nani	Muzhakkunnu	70	Female	26-11-2021

63	Kannur	Rabiya K	Kannur	67	Female	18-11-2021
64	Kannur	Rajan M	Koothuparamba	72	Male	25-10-2021
65	Kannur	Rajini	Munderi	65	Female	10-11-2021
66	Kannur	Tressiyamma	Kelakam	87	Female	22-11-2021

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

Table 9. Summary of critical patients

Patients in ICUs	701
Patients on Ventilator support	270

**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
39852625	16471152	77321	121734	829203	85909	35627	22237993

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
59702	40209	288	1103	210	229	17663

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	10410	9141	1269	36
Kollam	10669	10347	322	40
Pathanamthitta	5590	5223	367	8
Alappuzha	3227	3138	89	6
Kottayam	21550	21173	377	3
Idukki	3069	2970	99	5
Ernakulam	26444	25788	656	49
Thrissur	9075	8840	235	48
Palakkad	11017	10863	154	21
Malappuram	11083	10860	223	19
Kozhikode	19696	19389	307	14
Wayanad	13213	13079	134	28
Kannur	7013	6717	296	31
Kasaragod	3583	3309	274	7
Total	155639	150837	4802	315

Table 13. Summary of Travel surveillance 02/12/2021

Mode of Travel	Cumulative number of Passengers
International airport	2533931
Total	2533931

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	776
Total Psychosocial support calls made to persons in quarantine/ isolation.	73,09,588
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	9,71,157
Total psychosocial support calls to health care workers	64,194
Total Psychosocial support calls received in helpline numbers	90,770
Total calls to all categories of Persons	1,31,29,758

PART-V ANNEXURES

Annexure-1: List of Hotspots as on 02/12/2021

Panchayaths and Urban Wards with WIPR >10			
Sl.No	District	LSG	Ward No
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
<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
<i>1</i>	<i>Idukki</i>	<i>3</i>	<i>3</i>
<i>2</i>	<i>Ernakulam</i>	<i>10</i>	<i>11</i>
<i>3</i>	<i>Thrissur</i>	<i>4</i>	<i>5</i>
<i>4</i>	<i>Wayanad</i>	<i>2</i>	<i>2</i>
Total		19	21

References
<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

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
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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*