



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

www.health.kerala.gov.in

www.dhs.kerala.gov.in

controlroomdhsKERALA@gmail.com

Date: 04/12/2021

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

- 96.4% of the eligible population vaccinated with a single dose of vaccine (2,57,69,285) and 67.3% with a double dose (1,79,93,740) till December 4.
- Kerala is the state with highest rate of Vaccination/ Million- 1225874. 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 4557 positives, 3942 persons were eligible for vaccination. 463 were vaccinated with single-dose and 2202 were fully vaccinated.**
- **1277 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 27-December 3, the average active cases were 45,255 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 2473 new cases. The growth rate in newly declared cases decreased by 7% 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 16%, 11%, 22%, 12%, 11% and 9% 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 43,771 cases of infection only 7.6% 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 3/12/2021

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)
5156914	5070497	13529	13254	275	41124	7843	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)
4557	5108	12789	12490	299	52	263	0

Table 3. Cumulative summary as on 04/12/2021

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)
5161471	43771	5075605	164747	160333	4414	41439	8106	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	814	928	7090	
Kollam	350	369	2613	Pathanamthitta - 2
Pathanamthitta	211	603	1460	Wayanad - 1
Alappuzha	160	255	1036	Pathanamthitta - 4
Kottayam	347	284	4327	
Idukki	139	139	2093	
Ernakulam	606	806	6560	
Thrissur	489	433	4092	
Palakkad	151	104	575	
Malappuram	233	130	2365	
Kozhikode	566	400	6238	
Wayanad	135	207	1911	
Kannur	276	373	2409	
Kasaragod	80	77	1002	
Total	4557	5108	43771	

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	8	20	0	28
Kollam	16	92	0	108
Pathanamthitta	2	0	0	2
Alappuzha	0	33	0	33
Kottayam	8	0	0	8
Idukki	0	0	0	0
Ernakulam	5	38	0	43
Thrissur	3	0	0	3
Palakkad	4	40	0	44
Malappuram	0	0	0	0
Kozhikode	0	20	0	20
Wayanad	3	16	0	19
Kannur	0	1	0	1
Kasaragod	3	3	0	6
Total	52	263	0	315

- 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	5160972
Cases with history of International/Interstate travel	63113
Cases with history of contact	5097859

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

Total cases	4557
Cases with history of International/Interstate travel	9
Cases with history of contact	4343
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	Ajay Joseph Gomez	Thiruvananthapuram	50	Male	26-11-2021
2	Thiruvananthapuram	Babu Chandra	Pallichal	61	Male	28-11-2021
3	Thiruvananthapuram	Kanni Ammal	Mangalapuram	95	Female	03-12-2021
4	Thiruvananthapuram	Lalitha	Vakkom	70	Female	01-11-2021
5	Thiruvananthapuram	Mohanan	Vellarada	61	Male	27-11-2021
6	Thiruvananthapuram	Nazeera Beevi	Peringammala	49	Female	27-10-2021
7	Thiruvananthapuram	Nelson	Poovachal	76	Male	03-12-2021
8	Thiruvananthapuram	Sivakala	Varkala	60	Female	29-11-2021
9	Kollam	Aboobakkar Kunju	Kulasekharapuram	80	Male	06-11-2021
10	Kollam	Achamma Thomas	Kollam	64	Female	01-12-2021
11	Kollam	Ajayaghosh	Thrikkaruva	56	Male	03-11-2021
12	Kollam	Mani	Kulasekharapuram	63	Male	16-07-2021
13	Kollam	Marykutty	Thalavoor	62	Female	04-11-2021
14	Kollam	Rathikumar K	Kadakkal	59	Male	23-11-2021
15	Kollam	Santha K	Kalluvathukkal	73	Female	06-11-2021
16	Kollam	Shahubanath	Vilakkudy	70	Female	27-11-2021
17	Kollam	Sobhana	Kundara	58	Female	30-11-2021
18	Kollam	Subaida Beevi	Thrikkaruva	67	Female	28-10-2021
19	Kollam	Subaida Beevi	Mayyanad	73	Female	26-11-2021
20	Kollam	Telma	Panayam	76	Female	06-11-2021
21	Kollam	Thajudheen	Panmana	72	Male	24-11-2021

22	Kollam	Vijayalekshmy B	Pattazhi	75	Female	02-11-2021
23	Kollam	Vijayan	Chirakkara	53	Male	27-11-2021
24	Kollam	Yesudas	Perayam	67	Male	18-07-2021
25	Pathanamthitta	Omana Varghese	Kulanada	74	Female	03-12-2021
26	Pathanamthitta	Parameswaran Pillai	Malayalapuzha	77	Male	27-11-2021
27	Kottayam	Antony Chacko	Thrikkodithanam	92	Male	02-12-2021
28	Kottayam	Krishnan M K	Panachikadu	85	Male	01-12-2021
29	Kottayam	Kuttappan K K	Erumely	68	Male	01-12-2021
30	Kottayam	Mary	Vijayapuram	84	Female	02-12-2021
31	Kottayam	Mohanan	Akalakkunnam	61	Male	01-12-2021
32	Kottayam	Radhamani	Mulakkulam	58	Female	01-12-2021
33	Kottayam	Ramachandran	Kottayam	72	Male	01-12-2021
34	Kottayam	Swami Vedanada	Kooroppada	76	Male	02-12-2021
35	Ernakulam	Baby	Thrippunithura	65	Male	26-11-2021
36	Ernakulam	Joseph M O	Avoly	60	Male	22-11-2021
37	Ernakulam	K V Varkey	Thrikkakara	79	Male	16-08-2021
38	Ernakulam	Philmy M S J	Nellikuzhy	68	Female	25-10-2021
39	Ernakulam	Raju	Marady	54	Male	19-07-2021
40	Thrissur	Aneesh	Kuzhur	34	Male	02-12-2021
41	Thrissur	Ann Francis	Thrishur	95	Female	01-12-2021
42	Thrissur	Kochan	Parappookkara	75	Male	30-11-2021
43	Palakkad	Aboobacker	Thiruvegappura	96	Male	03-12-2021
44	Palakkad	Rappai Thomas	Ottappalam	67	Male	02-12-2021
45	Palakkad	Sankaran	Pookkottukavu	78	Male	19-11-2021
46	Palakkad	Saraswathy	Pudur	90	Female	19-09-2021
47	Wayanad	Muhammed	Pozhuthana	63	Male	27-09-2021
48	Wayanad	Skaria AP	Meenangadi	80	Male	30-11-2021
49	Wayanad	Sunny D	Muppainadu	75	Male	09-11-2021
50	Kasaragod	Afsabi	Madhur	76	Female	02-12-2021
51	Kasaragod	Kunhatha	Cheruvathur	85	Female	29-11-2021
52	Kasaragod	Narayanan	Nileshwar	80	Male	25-11-2021

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

Table 9. Summary of critical patients

Patients in ICUs	666
Patients on Ventilator support	258

**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
39973785	16554325	77321	122268	831173	86351	36096	22272565

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
58817	40766	273	1004	181	132	16461

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	21190	19921	1269	30
Kollam	9543	9218	325	45
Pathanamthitta	5011	4648	363	4
Alappuzha	3295	3220	75	8
Kottayam	21648	21648		
Idukki	3313	3207	106	2
Ernakulam	25312	24657	655	46
Thrissur	7965	7734	231	35
Palakkad	11913	11759	154	25
Malappuram	10946	10729	217	15
Kozhikode	20433	20128	305	18
Wayanad	13249	13116	133	22
Kannur	7462	7168	294	40
Kasaragod	3467	3180	287	9
Total	164747	160333	4414	299

Table 13. Summary of Travel surveillance 04/12/2021

Mode of Travel	Cumulative number of Passengers
International airport	2554988
Total	2554988

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 04/12/2021

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

DISTRICT WISE ABSTRACT

Sl. No	Name of District	WIPR (> 10)	
		No. of LSGs	No. of Wards
1	Idukki	3	3
2	Ernakulam	10	11
3	Thrissur	4	5
4	Wayanad	2	2
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
-----------	------------------------	------------

Annexure-3: Table of links to documents, guidelines, and websites

Dashboard	https://dashboard.kerala.gov.in/
Daily Bulletin	http://dhs.kerala.gov.in/ഡെയിലി-ബുള്ളറ്റിൻ%E2%80%8D/
Guidelines and Advisories	http://dhs.kerala.gov.in/ജാഗ്രത-നിർ%E2%80%8Dദേശങ്ങൾ%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*