



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

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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

- 96.1% of the eligible population vaccinated with a single dose of vaccine (2,56,68,624) and 64.3% with a double dose (1,71,85,003) till November 29.
- Kerala is the state with highest rate of Vaccination/ Million- 1200400. The state has vaccinated more than 96% of people aged more than 45 years with a single dose and 75% 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 3382 positives, 2931 persons were eligible for vaccination. 398 were vaccinated with single-dose and 1617 were fully vaccinated.**
- **916 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 21-November 27, the average active cases were 50,695 out of them an average of around 1.7% only were admitted in oxygen beds and 1.6% were in ICU. During this period there was a decrease of around 7227 new cases. The growth rate in newly declared cases decreased by 18% 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%, 9%, 28%, 6% , 7% 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 44,487 cases of infection only 7.7% 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 28/11/2021

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)
5133709	5046219	12361	12104	257	39838	6840	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)
3382	5779	6352	6107	245	59	58	0

Table 3. Cumulative summary as on 29/11/2021

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)
5137091	44487	5051998	156786	152086	4700	39955	6899	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	527	814	6764	
Kollam	259	289	2785	Pathanamthitta - 3
Pathanamthitta	111	7	1788	Ernakulam - 1, Wayanad - 1
Alappuzha	114	306	1220	Pathanamthitta - 8, Kottayam - 4, Ernakulam - 6
Kottayam	198	584	3885	
Idukki	122	262	2340	Pathanamthitta - 2
Ernakulam	666	946	6727	
Thrissur	237	632	4223	
Palakkad	174	253	893	
Malappuram	106	293	2250	
Kozhikode	477	693	6114	
Wayanad	82	268	1998	
Kannur	231	367	2546	
Kasaragod	78	65	954	
Total	3382	5779	44487	

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	7	16	0	23
Kollam	3	0	0	3
Pathanamthitta	0	0	0	0
Alappuzha	3	21	0	24
Kottayam	17	0	0	17
Idukki	0	0	0	0
Ernakulam	3	0	0	3
Thrissur	8	0	0	8
Palakkad	1	0	0	1
Malappuram	9	0	0	9
Kozhikode	5	0	0	5
Wayanad	3	0	0	3
Kannur	0	21	0	21
Kasaragod	0	0	0	0
Total	59	58	0	117

- 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>5136592</i>
Cases with history of International/Interstate travel	<i>63027</i>
Cases with history of contact	<i>5073565</i>

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

Total cases	<i>3382</i>
Cases with history of International/Interstate travel	<i>8</i>
Cases with history of contact	<i>3133</i>
Cases with no history of travel or contact	<i>241</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	Balachandran Nair	Thiruvananthapuram	56	Male	27-11-2021
2	Thiruvananthapuram	Bhaskaran	Thiruvananthapuram	76	Male	26-11-2021
3	Thiruvananthapuram	Jayakumar J	Pulimath	54	Male	25-11-2021
4	Thiruvananthapuram	Ponnamma Amma	Andoorkonam	69	Female	25-11-2021
5	Thiruvananthapuram	Ponnappan	Chirayinkeezhu	72	Male	25-11-2021
6	Thiruvananthapuram	Sathik M		49	Male	26-11-2021
7	Thiruvananthapuram	Thankamma	Chenkai	78	Female	22-11-2021
8	Kollam	Rajeev	Kollam	53	Male	20-11-2021
9	Kollam	Saleena	Edamulakkal	62	Female	26-11-2021
10	Kollam	Thomas	Velinalloor	92	Male	19-11-2021
11	Alappuzha	Ponnamma Papachan	Mavelikkara	78	Female	21-11-2021
12	Alappuzha	Radhamaniyamma	Cherthala	81	Female	25-11-2021
13	Alappuzha	Thambi K S	Kuthiathode	60	Male	23-11-2021
14	Kottayam	Anandakrishnan	T V Puram	17	Male	24-11-2021
15	Kottayam	Ansari K E	Athirampuzha	67	Male	13-11-2021
16	Kottayam	Ansari T A	Erumely	56	Male	24-11-2021
17	Kottayam	Antony K A	Vazhoor	63	Male	20-10-2021
18	Kottayam	Aravindan	Vechoor	79	Male	27-11-2021
19	Kottayam	Bhakthavalsalan Nair	Kottayam	86	Male	19-11-2021
20	Kottayam	Ciciliyamma	Vakathanam	82	Female	27-11-2021
21	Kottayam	Damodaran Kutty	Madappally	85	Male	22-11-2021

22	Kottayam	Joseph T V	Manjoor	69	Male	22-11-2021
23	Kottayam	Ligi Mathew	Panachikadu	38	Female	07-10-2021
24	Kottayam	Marykutty Babu	Kanjirappally	60	Female	13-11-2021
25	Kottayam	O T Varkey	Mundakayam	66	Male	27-11-2021
26	Kottayam	Purushothaman	Vazhoor	60	Male	21-11-2021
27	Kottayam	Ravi K	Mundakayam	48	Male	25-11-2021
28	Kottayam	Sainaba Beevi	Erumely	70	Female	10-10-2021
29	Kottayam	Sreedharan	Chempu	78	Male	26-11-2021
30	Kottayam	Thankamma Krishnankutty	Erumely	82	Female	25-11-2021
31	Ernakulam	Andria Chandran	Thrikkakara	63	Female	22-11-2021
32	Ernakulam	Mohanan T N	Kochi	62	Male	23-11-2021
33	Ernakulam	Thresiya George	Kalamassery	87	Female	22-11-2021
34	Thrissur	Aleyamma	Pazhayannur	67	Female	26-11-2021
35	Thrissur	Anitha	Irinjalakuda	58	Female	23-11-2021
36	Thrissur	Beevathu	Vadakkemkad	98	Female	17-09-2021
37	Thrissur	Fathima	Erumapetty	80	Female	20-11-2021
38	Thrissur	Kunjimol K A	Kattakampal	73	Female	06-10-2021
39	Thrissur	Mathew Varghese	Kunnamkulam	57	Male	22-11-2021
40	Thrissur	Simon	Kaiparambu	88	Male	19-09-2021
41	Thrissur	Sirajudeen	Vadakkancherry	55	Male	06-10-2021
42	Palakkad	Velayudhan	Polpully	85	Male	28-11-2021
43	Malappuram	Faizal Babu	Tirur	40	Male	04-07-2021
44	Malappuram	Mr Ahammed Kutty	Kodur	96	Male	01-07-2021
45	Malappuram	Mr. Mohammed	Vengara	65	Male	21-06-2021
46	Malappuram	Mr. Parameshwaran P	Tirur	82	Male	23-06-2021
47	Malappuram	Mr. Sivadasan V	Kottakkal	69	Male	19-06-2021
48	Malappuram	Mrs. Mammathu	Kottakkal	72	Female	21-06-2021
49	Malappuram	Mrs Rukhiya	Tirur	60	Female	29-06-2021
50	Malappuram	Ms Iyyathumma	Tirur Block Panchayath	66	Female	04-07-2021
51	Malappuram	Sreedharan	Veliyancode	76	Male	22-06-2021
52	Kozhikode	Ali	Kunnamangalam	79	Male	13-11-2021
53	Kozhikode	Krishnan	Peruvayal	81	Male	14-11-2021
54	Kozhikode	Majeed Cp	Vanimel	53	Male	14-11-2021
55	Kozhikode	Sadanandan	Kozhikode	75	Male	13-11-2021
56	Kozhikode	Sivadasan	Kadalundi	75	Male	19-11-2021
57	Wayanad	Mathy	Muttill	75	Female	14-11-2021
58	Wayanad	Noble P M	Meenangadi	73	Male	23-11-2021
59	Wayanad	Pushpa	Pulpally	40	Female	14-11-2021

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

Table 9. Summary of critical patients

Patients in ICUs	694
Patients on Ventilator support	281

**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
39669208	16349583	77321	120786	825966	85455	35140	22181271

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
44638	29384	254	1165	150	371	13314

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	7042	5773	1269	30
Kollam	12162	11870	292	41
Pathanamthitta	7072	6710	362	4
Alappuzha	3422	3324	98	10
Kottayam	21578	21200	378	0
Idukki	3033	2946	87	1
Ernakulam	26896	26296	600	32
Thrissur	11231	10980	251	32
Palakkad	8084	7942	142	26
Malappuram	11762	11547	215	18
Kozhikode	20021	19708	313	9
Wayanad	13906	13790	116	9
Kannur	6836	6540	296	28
Kasaragod	3741	3460	281	5
Total	156786	152086	4700	245

Table 13. Summary of Travel surveillance 29/11/2021

Mode of Travel	Cumulative number of Passengers
International airport	2511489
Total	2511489

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. **818** 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	818
Total Psychosocial support calls made to persons in quarantine/ isolation.	72,90,956
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	9,68,240
Total psychosocial support calls to health care workers	64,194
Total Psychosocial support calls received in helpline numbers	90,555
Total calls to all categories of Persons	1,31,07,994

PART-V ANNEXURES

Annexure-1: List of Hotspots as on 29/11/2021

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
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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*