



**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

- 95.8% of the eligible population vaccinated with a single dose of vaccine (2,56,09,911) and 62% with a double dose (1,65,57,201) till November 24.
- Kerala is the state with highest rate of Vaccination/ Million- 1181170. The state has vaccinated more than 96% of people aged more than 45 years with a single dose and 74% 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 4280 positives, 3676 persons were eligible for vaccination. 537 were vaccinated with single-dose and 2053 were fully vaccinated.**
- **1086 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 17-November 23, the average active cases were 59,056 out of them an average of around 1.6% only were admitted in oxygen beds and 1.4% were in ICU. During this period there was a decrease of around 5278 new cases. The growth rate in newly declared cases decreased by 12% 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 13%, 10%, 12%, 9% , 14% and 8% 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 51,302 cases of infection only 7.3% 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 23/11/2021

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)
5109674	5018279	9865	9489	376	38045	5218	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)
4280	5379	10046	9741	305	35	273	0

Table 3. Cumulative summary as on 24/11/2021

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)
5113954	51302	5023658	180316	175361	4955	38353	5491	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	838	624	7431	Kollam - 79, Pathanamthitta - 19, Alappuzha - 11, Kottayam - 9, Idukki - 11, Ernakulam - 7, Thrissur - 4, Palakkad - 3, Malappuram - 1, Kozhikode - 2, Kannur - 3, Kasaragod - 1, Others - 51
Kollam	286	372	3716	Pathanamthitta - 14, Idukki - 1, Ernakulam - 1
Pathanamthitta	167	377	1692	Alappuzha - 1, Kottayam - 6, Idukki - 1, Ernakulam - 2, Thrissur - 1
Alappuzha	137	277	1647	Pathanamthitta - 43, Kottayam - 34, Ernakulam - 3, Palakkad - 5, Kannur - 1
Kottayam	327	235	4877	Pathanamthitta - 49, Idukki - 43, Ernakulam - 30, Thrissur - 1, Kannur - 2
Idukki	144	242	3063	Kottayam - 15, Ernakulam - 33
Ernakulam	825	656	6835	Pathanamthitta - 7, Kottayam - 5, Idukki - 13, Thrissur - 1, Palakkad - 5, Wayanad - 1, Kannur - 4, Kasaragod - 2, Others - 305
Thrissur	428	764	5103	Kollam - 1, Pathanamthitta - 1, Alappuzha - 1, Kottayam - 1, Idukki - 1, Ernakulam - 6, Palakkad - 26, Malappuram - 1, Kannur - 1, Others - 1
Palakkad	203	264	1376	
Malappuram	101	263	2337	
Kozhikode	387	683	6796	Thiruvananthapuram - 2, Pathanamthitta - 1, Kottayam - 5, Ernakulam - 13, Malappuram - 4, Wayanad - 23, Kannur - 61, Kasaragod - 14, Others - 1
Wayanad	209	179	2368	Kannur - 3
Kannur	194	371	3170	
Kasaragod	34	72	891	Kannur - 1
Total	4280	5379	51302	

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	30	0	36
Kollam	5	0	0	5
Pathanamthitta	0	0	0	0
Alappuzha	2	45	0	47
Kottayam	7	79	0	86
Idukki	2	7	0	9
Ernakulam	3	57	0	60
Thrissur	3	0	0	3
Palakkad	0	22	0	22
Malappuram	1	29	0	30
Kozhikode	3	0	0	3
Wayanad	2	0	0	2
Kannur	0	0	0	0
Kasaragod	1	4	0	5
Total	35	273	0	308

- 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	5113455
Cases with history of International/Interstate travel	62947
Cases with history of contact	5050508

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

Total cases	4280
Cases with history of International/Interstate travel	27
Cases with history of contact	3979
Cases with no history of travel or contact	274

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

Sl no.	District	Name	Place	Age	Gender	Death Date
1	Thiruvananthapuram	Abdul Haque	Kadakkavoor	63	Male	18-11-2021
2	Thiruvananthapuram	Gertrude S	Karakulam	69	Female	18-11-2021
3	Thiruvananthapuram	Sadasivan Pillai K	Aryanad	71	Male	19-11-2021
4	Thiruvananthapuram	Sarojini B	Attingal	86	Female	07-11-2021
5	Thiruvananthapuram	Sathybhama	Karakulam	75	Female	07-11-2021
6	Thiruvananthapuram	Vijayamma	Kilimanoor	93	Female	16-11-2021
7	Kollam	Asokan Unnithan	Karunagappally	68	Male	31-10-2021
8	Kollam	Gopa Kumar	Mylom	65	Male	23-11-2021
9	Kollam	Jamaludheen	Kollam	62	Male	09-09-2021
10	Kollam	Shareefa	Panmana	44	Female	22-11-2021
11	Kollam	Yohannan D	East Kallada	77	Male	22-11-2021
12	Alappuzha	Leelamma Mathew	Edathua	83	Female	17-11-2021
13	Alappuzha	Yesodharan	Devikulangara	75	Male	30-10-2021
14	Kottayam	Aneesh	Kadaplamattom	39	Male	21-11-2021
15	Kottayam	C K Rameshan	Thiruvappu	68	Male	20-11-2021
16	Kottayam	Devasia Thomas	Vazhappally	71	Male	07-09-2021
17	Kottayam	James Pv	Kanjirappally	44	Male	19-11-2021
18	Kottayam	Mathai Kuriakose	Mundakayam	74	Male	20-11-2021
19	Kottayam	Ommen K M	Nedumkunnam	84	Male	29-09-2021
20	Kottayam	Shami Sharon	Kadanadu	25	Female	21-11-2021
21	Idukki	Joy Thomas	Konnathady	70	Male	20-10-2021
22	Idukki	Unnikrishnapillai	Kudayathoor	68	Female	18-11-2021

23	Ernakulam	Nusaifa	Kochi	32	Female	18-11-2021
24	Ernakulam	Sunil Kumar P P	Kochi	54	Male	20-05-2021
25	Ernakulam	Vasu Narayanan	Karukutty	69	Male	14-11-2021
26	Thrissur	John	Thrishur	73	Male	18-11-2021
27	Thrissur	Suduphudheen	Chavakkad	69	Male	20-11-2021
28	Thrissur	Varghese P O	Koratty	63	Male	14-11-2021
29	Malappuram	Achutty	Pulikkal	73	Female	14-11-2021
30	Kozhikode	Mariyoma	Koduvally	81	Female	20-11-2021
31	Kozhikode	Thankam	Kozhikode	67	Female	20-11-2021
32	Kozhikode	Ummer Kutty	Vadakara	71	Male	23-11-2021
33	Wayanad	Moosa K	Sulthan Bathery	65	Male	21-11-2021
34	Wayanad	Prasal Raj	Mananthavady	56	Male	17-11-2021
35	Kasaragod	Chandhravathi	Kanhangad	74	Female	20-11-2021

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

Table 9. Summary of critical patients

Patients in ICUs	795
Patients on Ventilator support	312

**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
39399426	16172014	77321	119423	820998	83686	34213	22098085

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
48916	31962	320	867	692	240	14835

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	14477	13179	1298	35
Kollam	14919	14611	308	32
Pathanamthitta	7533	7140	393	11
Alappuzha	4059	3934	125	14
Kottayam	27717	27314	403	0
Idukki	3696	3551	145	3
Ernakulam	30024	29447	577	33
Thrissur	13692	13426	266	51
Palakkad	7921	7757	164	18
Malappuram	11834	11616	218	12
Kozhikode	18043	17711	332	18
Wayanad	14893	14736	157	31
Kannur	7011	6711	300	38
Kasaragod	4497	4228	269	9
Total	180316	175361	4955	305

Table 13. Summary of Travel surveillance 24/11/2021

Mode of Travel	Cumulative number of Passengers
International airport	2464081
Total	2464081

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.	72,82,356
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	9,66,626
Total psychosocial support calls to health care workers	64,194
Total Psychosocial support calls received in helpline numbers	90,484
Total calls to all categories of Persons	1,30,97,709

PART-V ANNEXURES

Annexure-1: List of Hotspots as on 24/11/2021

Panchayaths and Urban Wards with WIPR >10			
Sl.No	District	LSG	Ward No
1	Thiruvananthapuram	Attingal (M)	3
2	Thiruvananthapuram	Nanniyode	5
3	Thiruvananthapuram	Panavoor	3
4	Thiruvananthapuram	Vakkom	7
5	Pathanamthitta	Thiruvalla (M)	18
6	Pathanamthitta	Kottanad	12
7	Pathanamthitta	Thannithode	3
8	Pathanamthitta	Mallappally	13
9	Pathanamthitta	Iraviperoor	5
10	Ernakulam	Muvattupuzha (M)	26
11	Ernakulam	North Paravur (M)	6
12	Ernakulam	Piravom (M)	10
13	Ernakulam	Thrikkakkara (M)	29
14	Ernakulam	Thrippunithura (M)	17, 28
15	Ernakulam	Amballur	4
16	Ernakulam	Avoli	9
17	Ernakulam	Chittattukara	18
18	Ernakulam	Kalloorkkadu	12
19	Ernakulam	Keerambra	5, 13
20	Ernakulam	Kottuvally	1
21	Ernakulam	Paingottur	6, 9
22	Ernakulam	Palakkuzha	6
23	Ernakulam	Pambakkuda	13
24	Ernakulam	Puthenvelikkara	13, 17
25	Ernakulam	Thirumadi	7
26	Ernakulam	Thuravur	2
27	Thrissur	Chavakkad (M)	6
28	Thrissur	Annamanada	3
29	Thrissur	Athirappally	2, 3, 6
30	Thrissur	Chazhoor	1
31	Thrissur	Edavilnagu	8
32	Thrissur	Mathilakom	7
33	Kozhikode	Keezhariyur	5
34	Kozhikode	Koodaranji	10
35	Wayanad	Kalppatta (M)	23

36	Wayanad	Mananthavady (M)	35
37	Wayanad	Sulthanbatheri (M)	9
38	Wayanad	Kottathara	1, 13
39	Wayanad	Vengappally	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
1	Thiruvananthapuram	4	4
2	Kollam	0	0
3	Pathanamthitta	5	5
4	Alappuzha	0	0
5	Kottayam	0	0
6	Idukki	0	0
7	Ernakulam	17	21
8	Thrissur	6	8
9	Palakkad	0	0
10	Malappuram	0	0
11	Kozhikkode	2	2
12	Wayanad	5	6
13	Kannur	0	0
14	Kasaragod	0	0
Total		39	46

References
<i>1.Thiruvananthapuram: DDMA/01/2020/COVID/H2 WIPR 12A dated 01.11.2021</i>
<i>2.Kollam: Nil</i>
<i>3.Pathanamthitta: DCPTA/1185/2020/DM5 dated 01.11.2021</i>
<i>4.Kottayam: Nil</i>
<i>5.Alappuzha: Nil</i>
<i>6.Idukki: Nil</i>
<i>7.Ernakulam: 3804/2020/D2 dated 02.11.2021</i>

8.Thirissur: DCTSR/H4/14476/2019 dated 01.11.2021
9.Palakkad: Nil
10.Malappuram: Nil
11.Kozhikkode: DCKKD/4545/2020/F4 dated 31.10.2021
12.Wayanad: DCWYD/2671/2021/DM5 dated 30.10.2021
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	https://dashboard.kerala.gov.in/
Daily Bulletin	http://dhs.kerala.gov.in/ഡയറിബ്ലി-ബുല്ലറ്റിൻ%E2%80%8D/

Guidelines and Advisories	http://dhs.kerala.gov.in/ജാഗ്രത-നീർ%20%8D630633%20%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*