



**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

- 95.6% of the eligible population vaccinated with a single dose of vaccine (2,55,51,479) and 59.6% with a double dose (1,59,33,048) till November 18.
- Kerala is the state with highest rate of Vaccination/ Million- 1162049. The state has vaccinated more than 96% of people aged more than 45 years with a single dose and 72% 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 6111 positives, 5175 persons were eligible for vaccination. 860 were vaccinated with single-dose and 2557 were fully vaccinated.
- 1758 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 10-November 16, the average active cases were 70,916 out of them an average of around 1.6% only were admitted in oxygen beds and 1.3% were in ICU. During this period there was a decrease of around 3103 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 7%, 10%, 23%, 11% , 12% 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 62,288 cases of infection only 6.8% 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 17/11/2021

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)
5077984	4977126	12092	11749	343	36475	3952	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)
6111	7202	12457	12135	322	51	321	0

Table 3. Cumulative summary as on 18/11/2021

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)
5084095	62288	4984328	205822	200635	5187	36847	4273	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	848	830	8968	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	531	944	4754	Pathanamthitta - 14, Idukki - 1, Ernakulam - 1
Pathanamthitta	253	357	2669	Alappuzha - 1, Kottayam - 6, Idukki - 1, Ernakulam - 2, Thrissur - 1
Alappuzha	185	318	2277	Pathanamthitta - 43, Kottayam - 34, Ernakulam - 3, Palakkad - 5, Kannur - 1
Kottayam	570	365	5729	Pathanamthitta - 49, Idukki - 43, Ernakulam - 30, Thrissur - 1, Kannur - 2
Idukki	274	386	3691	Kottayam - 15, Ernakulam - 33
Ernakulam	812	913	7744	Pathanamthitta - 7, Kottayam - 5, Idukki - 13, Thrissur - 1, Palakkad - 5, Wayanad - 1, Kannur - 4, Kasaragod - 2, Others - 305
Thrissur	591	612	6461	Kollam - 1, Pathanamthitta - 1, Alappuzha - 1, Kottayam - 1, Idukki - 1, Ernakulam - 6, Palakkad - 26, Malappuram - 1, Kannur - 1, Others - 1
Palakkad	269	340	1958	
Malappuram	287	323	2753	
Kozhikode	757	928	7507	Thiruvananthapuram - 2, Pathanamthitta - 1, Kottayam - 5, Ernakulam - 13, Malappuram - 4, Wayanad - 23, Kannur - 61, Kasaragod - 14, Others - 1
Wayanad	289	315	2663	Kannur - 3
Kannur	348	481	3905	
Kasaragod	97	90	1209	Kannur - 1
Total	6111	7202	62288	

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	18	0	25
Kollam	5	0	0	5
Pathanamthitta	0	0	0	0
Alappuzha	7	1	0	8
Kottayam	5	0	0	5
Idukki	3	22	0	25
Ernakulam	4	66	0	70
Thrissur	1	162	0	163
Palakkad	5	1	0	6
Malappuram	4	0	0	4
Kozhikode	2	37	0	39
Wayanad	0	0	0	0
Kannur	8	14	0	22
Kasaragod	0	0	0	0
Total	51	321	0	372

- 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	5083596
Cases with history of International/Interstate travel	62811
Cases with history of contact	5020785

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

Total cases	6111
Cases with history of International/Interstate travel	22
Cases with history of contact	5697
Cases with no history of travel or contact	392

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

Sl no.	District	Name	Place	Age	Gender	Death Date
1	Thiruvananthapuram	Abraham chandy	Karakulam	75	Male	12-11-2021
2	Thiruvananthapuram	Chandran	Karakulam	60	Male	17-11-2021
3	Thiruvananthapuram	Kochu kunju	Kattakada	87	Male	16-11-2021
4	Thiruvananthapuram	N krishnan achari	Thiruvananthapuram	80	Male	12-11-2021
5	Thiruvananthapuram	Radhamony	Chemmaruthy	75	Female	14-11-2021
6	Thiruvananthapuram	Valsala ramesan	Karakulam	55	Female	17-11-2021
7	Thiruvananthapuram	Velappan	Thiruvananthapuram	75	Male	08-11-2021
8	Kollam	Ajikumar	Kottarakkara	50	Male	11-11-2021
9	Kollam	Devadasn	Anchal	87	Male	14-11-2021
10	Kollam	Gopalan	Kottarakkara	72	Male	11-11-2021
11	Kollam	Jagadamma	Kollam	75	Female	17-11-2021
12	Kollam	Sujatha	Chadayamangalam	61	Female	04-11-2021
13	Alappuzha	Abraham	Alappuzha	59	Male	29-09-2021
14	Alappuzha	Ayyappan pillai	Aryad	70	Male	29-09-2021
15	Alappuzha	Biji babu	Ramankary	50	Male	27-09-2021
16	Alappuzha	Gopalakrishnan	Chengannur	72	Male	14-10-2021
17	Alappuzha	Nanappan	Mannanchery	85	Male	01-10-2021
18	Alappuzha	Somini	Cherthala	84	Female	27-09-2021
19	Alappuzha	Suma	Purakkad	51	Female	27-09-2021
20	Kottayam	E j john	Vijayapuram	71	Male	15-11-2021
21	Kottayam	K n mohanan	Puthuppally	71	Male	19-10-2021
22	Kottayam	Omana sasi	Poonjar	55	Female	15-11-2021
23	Kottayam	Sasidharan	Kanjirappally	62	Male	12-11-2021
24	Kottayam	Shemi shaji	Thiruvappu	48	Female	16-11-2021

25	Idukki	Aravindh	Kanchiyar	41	Male	15-11-2021
26	Idukki	Prabhakaran	Kodikulam	87	Male	15-11-2021
27	Idukki	Velayudhan	Arakulam	95	Male	14-11-2021
28	Ernakulam	Fathima bava	Vazhakkulam	85	Female	03-11-2021
29	Ernakulam	Kunjamma	Kochi	84	Female	16-11-2021
30	Ernakulam	Padmanabhan	North paravur	92	Male	09-11-2021
31	Ernakulam	Ratheesh t v	Varapuzha	56	Male	14-11-2021
32	Thrissur	Kunjibeevathu	Mathilakam	100	Female	16-11-2021
33	Palakkad	Goda sharman	Ottappalam	93	Male	15-11-2021
34	Palakkad	Kothakutty a c	Shornur	66	Male	13-11-2021
35	Palakkad	Mohammed	Anakkara	72	Male	17-11-2021
36	Palakkad	Santha	Vandazhi	67	Female	16-11-2021
37	Palakkad	Sulaiman	Palakkad	84	Male	17-11-2021
38	Malappuram	Binitha	Manjeri	31	Female	12-11-2021
39	Malappuram	Ismail	Malappuram	63	Male	12-11-2021
40	Malappuram	Janaki	Angadippuram	86	Female	13-11-2021
41	Malappuram	Prabhakaran	Puzhakkatiri	72	Male	26-10-2021
42	Kozhikode	Amina tc	Mavoor	82	Female	13-11-2021
43	Kozhikode	Purushothaman	Balusseriy	63	Male	08-10-2021
44	Kannur	Achuthan	Chittariparamba	93	Male	11-11-2021
45	Kannur	Hameed	Chockli	68	Male	08-11-2021
46	Kannur	Indira bhay pv	Cheruthazham	80	Female	09-11-2021
47	Kannur	Kumaran k	Kuttiattoor	87	Male	06-10-2021
48	Kannur	Madhavi	Panniyannur	83	Female	10-11-2021
49	Kannur	Mariyu p p	New mahe	81	Female	03-11-2021
50	Kannur	Shobhana	Malappattam	63	Female	11-11-2021
51	Kannur	Thresiyamma	Aralam	57	Female	08-11-2021

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

Table 9. Summary of critical patients

Patients in ICUs	817
Patients on Ventilator support	321

**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
39067192	15951951	77321	117720	814920	80954	33117	21997523

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
66693	41190	288	1354	3595	127	20139

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	24792	23451	1341	43
Kollam	17980	17612	368	57
Pathanamthitta	5114	4728	386	7
Alappuzha	4721	4578	143	12
Kottayam	29404	28954	450	0
Idukki	4593	4410	183	9
Ernakulam	33766	33192	574	23
Thrissur	15951	15675	276	41
Palakkad	8119	7945	174	23
Malappuram	12317	12095	222	17
Kozhikode	22344	21980	364	19
Wayanad	13772	13626	146	16
Kannur	7692	7440	252	49
Kasaragod	5257	4949	308	6
Total	205822	200635	5187	322

Table 13. Summary of Travel surveillance 18/11/2021

Mode of Travel	Cumulative number of Passengers
International airport	2423231
Total	2423231

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. **807** 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	807
Total Psychosocial support calls made to persons in quarantine/ isolation.	72,58,541
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	9,62,378
Total psychosocial support calls to health care workers	64,194
Total Psychosocial support calls received in helpline numbers	90,275
Total calls to all categories of Persons	1,30,69,437

PART-V ANNEXURES

Annexure-1: List of Hotspots as on 18/11/2021

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*