



**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

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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

- 97.8% of the eligible population vaccinated with a single dose of vaccine (2,61,26,846) and 78.4% with a double dose (2,09,53,988) till December 30.
- Kerala is the state with highest rate of Vaccination/ Million- 1318811. The state has vaccinated more than 97% of people aged more than 45 years with a single dose and 83% 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 2423 positives, 2131 persons were eligible for vaccination. 161 were vaccinated with single-dose and 1291 were fully vaccinated.**
- **679 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 December 23-December 29, the average active cases were 23,066 out of them an average of around 2.2% only were admitted in oxygen beds and 1.8% were in ICU. During this period there was a decrease of around 5044 new cases. The growth rate in newly declared cases decreased by 24% 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 25%, 22%, 22%, 20%, 23% and 15% 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 19,835 cases of infection only 10.5% 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 29/12/2021

| 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) |
|----------------|--------------------|---------------------------------------|---|-----------------------------------|-----------------------------|---|--|
| 5242078 | 5173656 | 5221 | 4774 | 447 | 47277 | 13090 | 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) |
|----------------|--------------------|---------------------------------------|---|-----------------------------------|---------------------------------|---|--|
| 2423 | 2879 | 5828 | 5656 | 172 | 15 | 149 | 0 |

Table 3. Cumulative summary as on 30/12/2021

| 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) |
|----------------------|--------------|-----------------|---|--|-------------------------------|------------------------|---|--|
| 5244501 | 19835 | 5176535 | 110680 | 107074 | 3606 | 47441 | 13239 | 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 |
|--------------------|--------------------------------------|--------------------------------|--|
| Thiruvananthapuram | 416 | 484 | 3206 |
| Kollam | 149 | 420 | 774 |
| Pathanamthitta | 150 | 119 | 286 |
| Alappuzha | 99 | 87 | 287 |
| Kottayam | 195 | 183 | 2634 |
| Idukki | 88 | 87 | 1025 |
| Ernakulam | 455 | 567 | 3464 |
| Thrissur | 192 | 171 | 1761 |
| Palakkad | 64 | 111 | 280 |
| Malappuram | 98 | 110 | 1204 |
| Kozhikode | 266 | 258 | 2861 |
| Wayanad | 67 | 64 | 742 |
| Kannur | 152 | 176 | 875 |
| Kasaragod | 32 | 42 | 436 |
| Total | 2423 | 2879 | 19835 |

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 | 5 | 6 | 0 | 11 |
| Kollam | 2 | 0 | 0 | 2 |
| Pathanamthitta | 0 | 29 | 0 | 29 |
| Alappuzha | 0 | 4 | 0 | 4 |
| Kottayam | 2 | 0 | 0 | 2 |
| Idukki | 0 | 0 | 0 | 0 |
| Ernakulam | 0 | 0 | 0 | 0 |
| Thrissur | 2 | 0 | 0 | 2 |
| Palakkad | 1 | 14 | 0 | 15 |
| Malappuram | 0 | 75 | 0 | 75 |
| Kozhikode | 1 | 0 | 0 | 1 |
| Wayanad | 0 | 0 | 0 | 0 |
| Kannur | 2 | 9 | 0 | 11 |
| Kasaragod | 0 | 12 | 0 | 12 |
| Total | 15 | 149 | 0 | 164 |

- 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 | 5244002 |
| Cases with history of International/Interstate travel | 63519 |
| Cases with history of contact | 5180483 |

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

| | |
|---|------|
| Total cases | 2423 |
| Cases with history of International/Interstate travel | 27 |
| Cases with history of contact | 2288 |
| Cases with no history of travel or contact | 108 |

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 Gafoor | Nedumangad | 68 | Male | 14-12-2021 |
| 2 | Thiruvananthapuram | Dominic Bencigar S | Parassala | 69 | Male | 26-12-2021 |
| 3 | Thiruvananthapuram | Santha | Vakkom | 76 | Female | 15-12-2021 |
| 4 | Thiruvananthapuram | Thulasi | Kattakada | 62 | Female | 15-10-2021 |
| 5 | Thiruvananthapuram | Vasundhara Devi | Parassala | 78 | Female | 28-12-2021 |
| 6 | Kollam | Gopinathan Achari | Pathanapuram | 65 | Male | 25-12-2021 |
| 7 | Kollam | Leela | Mynagappally | 71 | Female | 14-12-2021 |
| 8 | Kottayam | Sankara Subrahmanya Sharma | Vaikom | 76 | Male | 20-12-2021 |
| 9 | Kottayam | Thomas C P | Kottayam | 82 | Male | 24-12-2021 |
| 10 | Thrissur | Sebastian | Chelakkara | 73 | Male | 27-12-2021 |
| 11 | Thrissur | Visawmbaran | Eriyad | 75 | Male | 29-12-2021 |
| 12 | Palakkad | Kunji M | Tarur | 91 | Female | 29-12-2021 |
| 13 | Kozhikode | N Padmanabha Marar | Kayanna | 88 | Male | 26-12-2021 |
| 14 | Kannur | Damodharan | Kadannappalli-Panappuzha | 79 | Male | 20-12-2021 |
| 15 | Kannur | Sasimohan | Karivellur- Peralam | 57 | Male | 25-12-2021 |

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

Table 9. Summary of critical patients

| | |
|--------------------------------|------------|
| Patients in ICUs | 437 |
| Patients on Ventilator support | 151 |

**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 |
|-------------------------|---------------------------------------|----------------------|---------------|---------------|---------------|--------------|-----------------|
| 41436141 | 17561497 | 77321 | 129199 | 855200 | 115602 | 42131 | 22661505 |

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 |
|--------------|----------------------------------|------------|-------------|------------|------------|---------------|
| 58459 | 41744 | 251 | 1012 | 462 | 120 | 14870 |

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 | 20154 | 18929 | 1225 | 31 |
| Kollam | 4336 | 4154 | 182 | 10 |
| Pathanamthitta | 6062 | 5909 | 153 | 13 |
| Alappuzha | 3110 | 3048 | 62 | 6 |
| Kottayam | 12760 | 12526 | 234 | 0 |
| Idukki | 1555 | 1513 | 42 | 1 |
| Ernakulam | 11219 | 10797 | 422 | 18 |
| Thrissur | 2736 | 2245 | 491 | 28 |
| Palakkad | 6701 | 6633 | 68 | 6 |
| Malappuram | 8177 | 8049 | 128 | 8 |
| Kozhikode | 14967 | 14761 | 206 | 18 |
| Wayanad | 7572 | 7514 | 58 | 10 |
| Kannur | 7165 | 7070 | 95 | 18 |
| Kasaragod | 4166 | 3926 | 240 | 5 |
| Total | 110680 | 107074 | 3606 | 172 |

Table 13. Summary of Travel surveillance 30/12/2021

| Mode of Travel | Cumulative number of Passengers |
|-----------------------|---------------------------------|
| International airport | 2820099 |
| Total | 2820099 |

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. **842** 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 | 842 |
| Total Psychosocial support calls made to persons in quarantine/ isolation. | 73,77,648 |
| 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 | 9,85,816 |
| Total psychosocial support calls to health care workers | 64,194 |
| Total Psychosocial support calls received in helpline numbers | 91,603 |
| Total calls to all categories of Persons | 1,32,13,310 |

PART-V ANNEXURES

Annexure-1: List of Hotspots as on 30/12/2021

| Panchayaths and Urban Wards with WIPR >10 | | | |
|--|-----------------|--------------|----------------|
| Sl.No | District | LSG | Ward No |
| 1 | Ernakualm | Kalloorkkadu | 8, 7 |
| 2 | Ernakualm | Pothanicadu | 3 |
| 3 | Ernakualm | Aikaranad | 4 |
| 4 | Ernakualm | Keerambra | 10 |
| 5 | Wayanad | Vythiri | 8 |
| <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 | Ernakulam | 4 | 5 |
| 2 | Wayanad | 1 | 1 |
| Total | | 5 | 6 |

| References |
|--|
| 1.Thiruvananthapuram: Nil |
| 2.Kollam: Nil |
| 3.Pathanamthitta: Nil |
| 4.Kottayam: Nil |
| 5.Alappuzha: Nil |
| 6.Idukki: Nil |
| 7.Ernakulam: 3804/2020/D2 dated 07.12.2021 |
| 8.Thirissur: Nil |
| 9.Palakkad: Nil |
| 10.Malappuram: Nil |
| 11.Kozhikkode: Nil |
| 12.Wayanad: DCWYD/2671/2021/DM5 dated 04.12.2021 |
| 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/ഡെയിലി-ബുള്ളറ്റിന്%E2%80%8D/ |
| Guidelines and Advisories | http://dhs.kerala.gov.in/ജാഗ്രത-നിര്%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 | 04872383155, 8281100729, 8086007999 |
| Palakkad | 04912533323 |
| 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*