



COVID-19 (nCorona) Virus Outbreak Control and Prevention State Cell
Health & Family Welfare Department
Government of Kerala

FRAMEWORK FOR SARS-CoV-2 PREPAREDNESS – THRESHOLD- ACTIVITY MATRIX

NO-45/31/F2/H&FWD- 10th Jan 2021.

The Min of H&FW Govt of India and the State Government have issued series of prevention, control measures and mitigation related guidelines regarding COVID 19 pandemic especially In the wake of outbreak of SARS-CoV-2 variant Omicron infections in many countries in the world..

In order to work out various activities related to hospital infrastructure, testing, surveillance, material and supplies, field hospitals and health human resource related activities a framework is suggested for taking various actions.

The district health administration and all Directorates and Organizations functioning under Department of Health & Family Welfare are instructed to take appropriate measures depending on the pandemic situation in the district.


Principal Secretary

COVID-19 Preparedness

Threshold Triggers
Action Points

Modalities of Action



Threshold 1

Trigger points

Baseline-Hospital admission and
ICU admission [Jan 1,2022].

- Doubling of hospital admission due to COVID.
- 50% increase in ICU admission due to COVID.

Action Points

- Infrastructure Preparedness: Start planning for expansion
 - a. Frontline Infrastructure: Identify 1st Priority Field Hospitals CSLTC (Other than the education institutions)
 - b. COVID Hospital Infrastructure: Increase Oxygen Beds, ICUs and Ventilators by 20%
 - c. HR alert- start preparing HR pool from Dental, ISM, Homeo
- Surveillance Measures:
 - a. Identify Clusters and Micro-Containment Zones
- Regulation measures:
 - a. Implement **restrictions as per the DMD orders**
- Testing Strategies:
 - a. Increase testing in clusters and do isolation
 - b. From Clusters/Zones – random samples for Genomic Analysis
- Liquid Medical Oxygen Stocking:
 - a. Assess Stocks of centralised and decentralised LMO
 - b. Enhance stocks: Ensure full reserve capacity
- Drugs, consumables stocking
- eJagritha – Data management updation by DPMSU

Threshold 2

Trigger points

- Doubling of ICU admission due to COVID
- Hospital admissions due to COVID reaching 10% of total hospital admissions of the district.

Action Points

- Infrastructure Preparedness:
 - a. Frontline Infrastructure: Activate CSLTC as per the requirement
 - b. COVID Hospital Infrastructure: Increase Oxygen Beds, ICUs and Ventilators by 30%
 - c. Regulate non-COVID care
- Surveillance Measures:
 - a. Enhance identification of Clusters and Micro-Containment Zones
- Regulation measures:
 - a. Implement **restrictions as per the DMD orders**
- Testing Strategies:
 - a. Increase testing in clusters
 - b. From Clusters random samples for Genomic Analysis
- Liquid Medical Oxygen Stocking:
 - a. Enhance stocks: Fill up 100% of reserve capacity
 - b. Look for potential sources of capacity enhancement

From Trigger point 2 onwards

- All acute respiratory infections should be in home isolation and should follow home care guidelines and focus on red flag signs.
- Acute respiratory infections with fever should be tested .
- ARI surveillance and fever will be strengthened
- Monitoring for red flag signs form the core of home care. Knowledge about red flag signs will be disseminated again to public through all avenues.

Threshold 3

Trigger points

- COVID hospital admission reaching 25% of the total hospital admission of the district

Action Points

- Infrastructure Preparedness:
 - a. Frontline Infrastructure: Activate CSLTC and other Field Hospitals as per the progression of pandemic
 - b. Hospital Infrastructure: Use earmarked COVID beds in CHC, TH, GH, DH and MCH
 - c. Regulate Non-COVID care appropriately and switch to emergency Non Covid Care
 - d. Activate Covid care in private healthcare institutions for Government referred patients only after crossing 70% occupancy in the Government Hospitals in the district
- Surveillance Measures:
 - a. Enhance identification of Clusters and Micro-Containment Zones
- Regulation measures:
 - a. Implement **restrictions as per the DMD orders**
- Testing Strategies:
 - a. Syndromic management
- Liquid Medical Oxygen Stocking:
 - a. Streamline and strengthen Oxygen War Room
 - b. Re-confirm full stocks of centralised and decentralised LMO