

New Covid-19 treatment guidelines

The All India Institute of Medical Sciences and Indian Council of Medical Research (ICMR) have issued new guidelines to identify Covid-19 treatment based on three levels of seriousness – mild, moderate and severe. A look at the new protocol

MILD DISEASE

Upper respiratory symptoms (or fever) without shortness of breath or hypoxia

Dos:

HOME ISOLATION

- Distancing, mask use, strict hand hygiene
- Symptomatic management (hydration, anti-pyretics, anti-tussive, multivitamins)
- Staying in contact with doctor
- Monitoring temperature, oxygen saturation

Seek immediate medical attention if:

Difficulty in breathing AND/OR high grade fever/severe cough, particularly if for 5+ days

MAY Dos: OPTIONS FOR THERAPIES

- Tab Ivermectin (200 mcg/kg once a day for 3 days) (avoid in pregnant and lactating women) OR Tab HCQ (400 mg BD for 1 day f/b 400 mg OD for 4 days) unless contraindicated
- Inhalational Budesonide (800 mcg BD for 5 days) if symptoms (fever and/or cough) are persistent beyond 5 days of disease onset

WHO ARE HIGH-RISK PATIENTS?

Age 60+ years; cardiovascular disease, hypertension, and CAD; diabetics and other immunocompromised patients; chronic lung/kidney/liver disease; cerebrovascular disease, obesity

MODERATE DISEASE

Respiratory rate >24/min, breathlessness; SpO₂: 90-93% on room air

OXYGEN SUPPORT

ADMIT IN WARD

- Target SpO₂: 92-96% (88-92% in patients with COPD).
- Preferred devices for oxygenation: non-rebreathing face mask.
- Awake proning encouraged
- Anti-inflammatory or immunomodulatory therapy
- Inj. Methylprednisolone 0.5 to 1 mg/kg in 2 divided doses (or an equivalent dose of dexamethasone) usually for 5-10 days.
- Patients may be initiated or switched to oral route if stable and/or improving.

ANTICOAGULATION

Conventional dose prophylactic unfractionated heparin or low molecular weight heparin (weight based e.g., enoxaparin 0.5mg/kg per day SC). There should be no contraindication or high risk of bleeding

MONITORING

- Work of breathing, Hemodynamic instability, Change in oxygen requirement.
- Serial CXR; HRCT chest to be done ONLY if there is worsening.
- Lab monitoring: CRP and D-dimer 48 to 72 hrly; CBC, KFT, LFT 24 to 48 hrly; IL-6 levels to be done if deteriorating (subject to availability).

SEVERE DISEASE

Any one of: Respiratory rate >30/min, breathlessness OR SpO₂ <90% on room air

OXYGEN SUPPORT

ADMIT IN ICU

- Consider use of NIV
- Consider use of HFNC
- Intubation should be prioritized in patients with high work of breathing /if NIV is not tolerated
- Use conventional ARDSnet protocol for ventilatory management

ANTI-INFLAMMATORY OR IMMUNOMODULATORY THERAPY

- Inj Methylprednisolone 1 to 2mg/kg IV in 2 divided doses (or an equivalent dose of dexamethasone) for 5-10 days

ANTICOAGULATION

- Weight based intermediate dose prophylactic unfractionated heparin or low molecular weight heparin (e.g., Enoxaparin 0.5mg/kg per dose SC BD)

SUPPORTIVE MEASURES

- Maintain euvolemia (if available, use dynamic measures for assessing fluid responsiveness).
- If sepsis/septic shock: manage as per existing protocol and local antibiogram

MONITORING

- Serial CXR; HRCT chest to be done ONLY if there is worsening
- Lab monitoring: CRP and D-dimer 24-48 hourly; CBC, KFT, LFT daily; IL-6 to be done if deteriorating (subject to availability)

EUA OR OFF LABEL USE

(based on limited evidence and only in specific circumstances)

REMDESIVIR

may be considered ONLY in patients with

- Moderate to severe disease
- No renal or hepatic dysfunction, AND
- Who are within 10 days of onset of symptom/s

Not to be used in patients who are NOT on oxygen support or in home settings

TOCIZUMAB may be considered when ALL OF THESE CRITERIA ARE MET

- Presence of severe disease
- Significantly raised inflammatory markers
- Not improving despite use of steroids.
- No active infection.

CONVALESCENT PLASMA

may be considered ONLY WHEN THESE CRITERIA ARE MET

- Early moderate disease
- Availability of high titre donor plasma





COVID-19 Crisis



MINISTRY OF AYUSH
GOVERNMENT OF INDIA

Ministry of Ayush recommendations, based on Ayurvedic literature and scientific publications, for preventive health measures and boosting immunity with special reference to respiratory health.

Measures for Enhancing Immunity

- Drink warm water throughout the day.
- Daily practice of Yogasana, Pranayama and Meditation for at least 30 minutes.
- Spices like Haldi (Turmeric), Jeera (Cumin), Dhaniya (Coriander) and Lahsun (Garlic) recommended in cooking.

Ayurvedic Immunity Enhancing Tips

- Take Chyavanprash 10gm (1tsf) in the morning. Diabetics should take sugar free Chyavanprash.
- Drink Herbal Tea/Decoction (Kadha) made from Tulsi (Basil), Dalchini (Cinnamon), Kalimirch (Black Pepper), Shunthi (Dry Ginger) and Munakka (Raisin) - once or twice a day. Add jaggery (Natural Sugar) and/or fresh Lemon Juice to your taste, if needed.
- Golden Milk- half tea spoon Haldi (Turmeric) powder in 150 ml Hot Milk - once or twice a day.

Immunity Boosting Measures for Self-Care

Simple Ayurvedic Procedures

- **Nasal Application**– Apply Sesame Oil/Coconut oil or Ghee in both the nostrils (Pratimarsh Nasya) in morning and evening.
- **Oil Pulling Therapy**– Take 1 table spoon Sesame or Coconut Oil in mouth. Do not drink, swish in the mouth for 2 to 3 minutes and spit it off followed by warm water rinse. This can be done once or twice a day.

Actions During Dry Cough/Sore Throat

- Steam inhalation with fresh Pudina (Mint) leaves or Ajwain (Caraway Seeds) can be practiced once in a day.
- Lavang (Clove) powder mixed with Natural Sugar/Honey can be taken 2-3 times a day in case of cough or throat irritation.
- These measures generally treat normal dry cough and sore throat. However, it is best to consult doctors if these symptoms persist.

कोविड - 19 के लिए होम आइसोलेशन एवं देखभाल

कोविड -19 के संभावित लक्षण



बुखार



खांसी



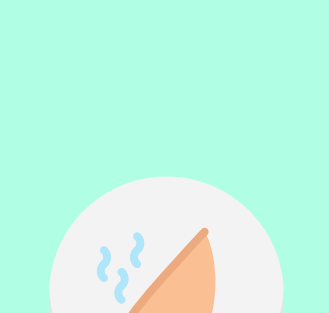
सिरदर्द



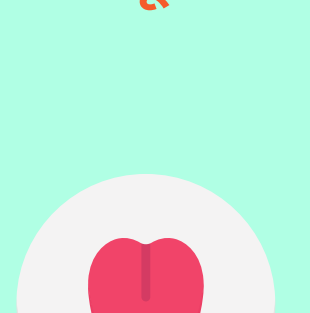
गले में खराश



साँस फूलना



शरीर में दर्द



हाल ही में स्वाद की क्षमता में कमी

हाल ही में सूँघने की क्षमता में कमी



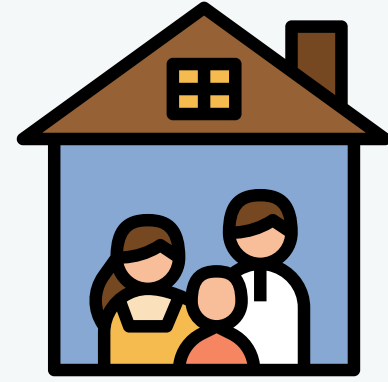
ALERT

बिना लक्षणवाले परिवार के सदस्य यदि लक्षणवाले रोगियों के संपर्क में आये हो, तो अपने स्वास्थ्य की देखभाल करें और जांच कराएं

अपनी देखभाल करते समय

- ✓ कोविड-19 की जांच कराएं
- ✓ यदि ऑक्सिजन संतृप्ति 93% या उससे कम हो तो अस्पताल में भर्ती होने के लिए अपने डॉक्टर से संपर्क करें
- ✓ डॉक्टर की सलाह अनुसार खून की जाँच कराएं

ये करें



घर पर रहें



हाथ धोएँ



अलग रहें और आराम करें

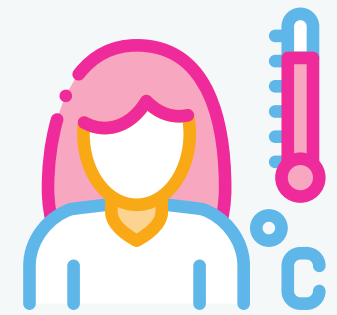


परिवार के सभी सदस्य मास्क पहनें



कमरे में वायु संचालन के लिए खिड़की खुली रखें

निगरानी रखें



शरीर का तापमान (प्रत्येक 4 घंटे)



ऑक्सिजन संतृप्ति (ऑक्सीमीटर से) (प्रत्येक 4 घंटे)



CAUTION

इनमें से कुछ भी हो तो चिकित्सीय सलाह लें

- ऑक्सिजन संतृप्ति 93% या उससे कम
- साँस फूले या चक्कर आए

उपचार



जल, सूप, जूस, नारियल पानी, आदि पीएँ



ऑक्सिजन संतृप्ति को बेहतर करने के लिए सीने के बल सोएँ और गहरी साँसें लें



6 घंटे के अंतराल पर पैरासेटामॉल और यदि आवश्यक हो तो कफ सिरप लें



मल्टीविटामिन्स और जरूरी खनिज



दिन में तीन बार भाप लें और/या गरम पानी से गरारे करें

ऐसा ना करें

- ✗ घरेलू उपचार की स्थिति में रेम्डेसिवीर का इस्तेमाल ना करें
- ✗ बुडेसोनाईड के लिए नेब्यूलाईसर का उपयोग ना करें
- ✗ चिकित्सक की सलाह के बिना ऑक्सिजन सिलिंडर उपयोग ना करें

डॉक्टर की सलाह अनुसार निम्नलिखित इलाज करें

1. मापित खुराक इन्हेलर (MDI) / शुष्क पाउडर इन्हेलर (DPI) से बुडेसोनाईड – यदि लक्षण पाँच दिनों बाद भी रहें, केवल तभी लें
2. आइवरमेक्टिन / हाइड्रो ऑक्सीक्लोरोक्वीन
3. कम खुराक में स्टीरोइड, यदि लक्षण सात दिनों से ज्यादा रहें, केवल अपने डॉक्टर की सलाह पर लें
4. एंटीबायोटिक्स, जैसा उपयुक्त हो



icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH
ESTABLISHED IN 1947

एम्स/आईसीएमआर-कोविड-19 राष्ट्रीय कार्य बल/संयुक्त निगरानी समूह (स्वास्थ्य सेवा महानिदेशालय)

स्वास्थ्य एवं परिवार कल्याण मंत्रालय
भारत सरकार



**AIIMS/ ICMR-COVID-19 National Task Force/
Joint Monitoring Group (Dte.GHS)**
Ministry of Health & Family Welfare, Government of India
CLINICAL GUIDANCE FOR MANAGEMENT OF ADULT COVID-19 PATIENTS

23rd September 2021

COVID-19 patient

Mild disease

Upper respiratory tract symptoms (&/or fever) **WITHOUT** shortness of breath or hypoxia

Home Isolation & Care

MUST DOs

- ✓ Physical distancing, indoor mask use, strict hand hygiene.
- ✓ Symptomatic management (hydration, anti-pyretics, anti-tussive, multivitamins).
- ✓ Stay in contact with treating physician.
- ✓ Monitor temperature and oxygen saturation (by applying a SpO₂ probe to fingers).

Seek immediate medical attention if:

- Difficulty in breathing
- High grade fever/severe cough, particularly if lasting for >5 days
- A low threshold to be kept for those with any of the high-risk features*

MAY DOs

Therapies based on low certainty of evidence

- ❖ Inhalational Budesonide (given via Metered dose inhaler/ Dry powder inhaler) at a dose of 800 mcg BD for 5 days) to be given if symptoms (fever and/or cough) are persistent beyond 5 days of disease onset.

Moderate disease

Any one of:

1. Respiratory rate ≥ 24 /min, breathlessness
2. SpO₂: 90% to $\leq 93\%$ on room air

ADMIT IN WARD

Oxygen Support:

- Target SpO₂: 92-96% (88-92% in patients with COPD).
- Preferred devices for oxygenation: non-rebreathing face mask.
- Awake proning encouraged in all patients requiring supplemental oxygen therapy (sequential position changes every 2 hours).

Anti-inflammatory or immunomodulatory therapy

- Inj. Methylprednisolone 0.5 to 1 mg/kg in 2 divided doses (or an equivalent dose of dexamethasone) usually for a duration of 5 to 10 days.
- Patients may be initiated or switched to oral route if stable and/or improving.

Anticoagulation

- Conventional dose prophylactic unfractionated heparin or Low Molecular Weight Heparin (weight based e.g., enoxaparin 0.5mg/kg per day SC). There should be no contraindication or high risk of bleeding.

Monitoring

- Clinical Monitoring: Work of breathing, Hemodynamic instability, Change in oxygen requirement.
- Serial CXR; HRCT chest to be done **ONLY** If there is worsening.
- Lab monitoring: CRP and D-dimer 48 to 72 hrly; CBC, KFT, LFT 24 to 48 hrly; IL-6 levels to be done if deteriorating (subject to availability).

Severe disease

Any one of:

1. Respiratory rate >30 /min, breathlessness
2. SpO₂ $< 90\%$ on room air

ADMIT IN ICU

Respiratory support

- Consider use of NIV (Helmet or face mask interface depending on availability) in patients with increasing oxygen requirement, if work of breathing is LOW.
- Consider use of HFNC in patients with increasing oxygen requirement.
- Intubation should be prioritized in patients with high work of breathing /if NIV is not tolerated.
- Use conventional ARDSnet protocol for ventilatory management.

Anti-inflammatory or immunomodulatory therapy

- Inj Methylprednisolone 1 to 2mg/kg IV in 2 divided doses (or an equivalent dose of dexamethasone) usually for a duration 5 to 10 days.

Anticoagulation

- Weight based intermediate dose prophylactic unfractionated heparin or Low Molecular Weight Heparin (e.g., Enoxaparin 0.5mg/kg per dose SC BD). There should be no contraindication or high risk of bleeding.

Supportive measures

- Maintain euolemia (if available, use dynamic measures for assessing fluid responsiveness).
- If sepsis/septic shock: manage as per existing protocol and local antibiogram.

Monitoring

- Serial CXR; HRCT chest to be done **ONLY** if there is worsening.
- Lab monitoring: CRP and D-dimer 24-48 hourly; CBC, KFT, LFT daily; IL-6 to be done if deteriorating (subject to availability).

After clinical improvement, discharge as per revised discharge criteria.

EUA/Off label use (based on limited available evidence and only in specific circumstances):

- **Remdesivir (EUA)** may be considered **ONLY** in patients with
 - Moderate to severe disease (requiring **SUPPLEMENTAL OXYGEN**), AND
 - No renal or hepatic dysfunction (eGFR <30 ml/min/m²; AST/ALT >5 times ULN (Not an absolute contradiction), AND
 - Who are within 10 days of onset of symptom/s.
 - ❖ Recommended dose: 200 mg IV on day 1 f/b 100 mg IV OD for next 4 days.
 - Not to be used in patients who are NOT on oxygen support or in home settings
- **Tocilizumab (Off-label)** may be considered when **ALL OF THE BELOW CRITERIA ARE MET**
 - Presence of severe disease (preferably within 24 to 48 hours of onset of severe disease/ICU admission).
 - Significantly raised inflammatory markers (CRP &/or IL-6).
 - Not improving despite use of steroids.
 - No active bacterial/fungal/tubercular infection.
 - ❖ Recommended single dose: 4 to 6 mg/kg (400 mg in 60kg adult) in 100 ml NS over 1 hour.

***High-risk for severe disease or mortality**

- ✓ Age > 60 years
- ✓ Cardiovascular disease, hypertension, and CAD
- ✓ DM (Diabetes mellitus) and other immunocompromised states
- ✓ Chronic lung/kidney/liver disease
- ✓ Cerebrovascular disease
- ✓ Obesity



भारतीय आयुर्विज्ञान अनुसंधान परिषद
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार
कल्याण मंत्रालय, भारत सरकार

Indian Council of Medical Research
Department of Health Research, Ministry of Health
and Family Welfare, Government of India

Date: 11/06/2020

Total Operational (initiated independent testing) Laboratories reporting to ICMR:

Government laboratories : 637

Private laboratories : 240

- *Real-Time RT PCR for COVID-19* : 524 (Govt: 343 + Private: 181)
- *TrueNat Test for COVID-19* : 283 (Govt: 269 + Private: 14)
- *CBNAAT Test for COVID-19* : 70 (Govt: 25 + Private: 45)

Total No. of Labs : 877

*CSIR/DBT/DST/DAE/ICAR/DRDO Laboratories.

#Laboratories approved for both Real-Time RT-PCR and TrueNat/CBNAAT

\$Laboratories approved for both TrueNAT and CBNAAT

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
1.	Andhra Pradesh (58) Govt: 53	RT-PCR	1. Sri Venkateswara Institute of Medical Sciences, Tirupati 2. Sri Venkateswara Medical College, Tirupati	1. Manipal Hospital, Tadepalli, Guntur 2. PathGene Health Care Pvt Ltd#2nd Floor, Srinivasapuram, Tiruchanoor Road, Opp LV kayanamandapam, Tirupathi



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
	Private: 5		3. Rangaraya Medical College, Kakinada 4. #Sidhartha Medical College, Vijaywada 5. Govt. Medical College, Ananthpur 6. Guntur Medical College, Guntur 7. Rajiv Gandhi Institute of Medical Sciences, Kadapa 8. Andhra Medical College, Visakhapatnam 9. Govt. Kurnool Medical College, Kurnool 10. Govt. Medical College, Srikakulam 11. AIIMS, Mangalagiri	3. Apollo Health and Lifestyle Ltd, Vijayawada Diagnostics Lab, 40-5-6, Parmeshwara Complex, Tikkle Road, Vijayawada 4. Vijaya Diagnostic Centre Pvt. Ltd., Plot No: 43/198, Old Rainbow Hospital Lane, N R Peta, Kurnool 5. Maharaja Institute of Medical Sciences, Vizianagaram
		TrueNat	12. Damien TB Research Centre, Nellore 13. SVRR Govt. General Hospital, Tirupati 14. Community Health Centre, Gadi Veedhi Saluru, Vizianagaram 15. Community Health Centre, Bhimavaram, West Godavari District 16. Community Health Centre, Patapatnam 17. Community Health Center, Nandyal, Banaganapalli, Kurnool 18. GSL Medical College & General Hospital, Rajahnagar, East Godavari District 19. District Hospital, Madnapalle, Chittoor District 20. District Hospital, APVVP, Pulivendula, Kadapa District	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			21. District Hospital, Rajahmundry, East Godavari District	
			22. District Hospital, Noonepalli, Nandyal, Kurnool	
			23. District Hospital, Anakapalli, Vishakhapatnam	
			24. District Hospital, Hindupur, Anantpur	
			25. District Hospital, Proddatur	
			26. District Hospital, Machilipatnam	
			27. District Hospital, Atmakur	
			28. District Hospital, Markapur	
			29. District Hospital, Tekkali	
			30. Area Hospital, Rampachodavaram, East Godavari District	
			31. Area Hospital, Palamaner, Chittoor	
			32. Area Hospital, Amalapuram, East Godavari District	
			33. Area Hospital, Adoni, Kurnool	
			34. Area Hospital, Chirala	
			35. Area Hospital, Kandukuru	
			36. Area Hospital, Narsipatnam	
			37. Area Hospital, Parvathipuram	
			38. Area Hospital, Tadepalligudem	
			39. Area Hospital, Kavali	
			40. Area Hospital, Tenali	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			41. Area Hospital, Narasaraopet, Guntur 42. Area Hospital, Macheria, Guntur 43. Area Hospital, Kadiri 44. Area Hospital, Gandhinagar, Nuzividu 45. ACSR Govt. Medical College, Nellore 46. Rural Development Trust, Bathalpalli 47. Govt. General Hospital, Guntur 48. Govt. General Hospital/ RIMS, Ongole 49. DST Lab Govt. Chest Hospital, Vishakhapatnam 50. District Hospital, Vizianagram 51. District Hospital, Chittoor 52. District Hospital, Eluru 53. SHAR Hospital, Sriharikota, Nellore	
2.	Arunachal Pradesh (2)	RT-PCR	54. Tomo Riba Institute of Health & Medical Sciences, Naharlagun	
		TrueNAT	55. Intermediate Reference Laboratory, Directorate of Health Sciences, Naharlagun	
3.	Assam (13) Govt: 11 Private: 2	RT-PCR	56. Gauhati Medical College, Guwahati 57. ICMR-Regional Medical Research Center, Dibrugarh 58. Jorhat Medical College, Jorhat 59. Silchar Medical College, Silchar	6. Ultracare Diagnostic Centre, Dept of Lab Services, Ashok Path, Survey, Beltola, Guwahati



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			60. Fakkhruddin Ali Ahmed Medical College, Barpeta 61. Tezpur Medical College, Tezpur 62. Assam Medical College, Dibrugarh 63. *CSIR North East Institute of Science and Technology (NEIST), Jorhat 64. *Defence Research Laboratory, Tezpur 65. Diphu Medical College, Karbi Anglong	
		TrueNat		7. Molecular Testing LAB, GNRC Lab services, GNRC Hospitals, Dispur
4.	Bihar (37) Govt: 35 Private: 2	RT-PCR	66. ICMR-Rajendra Memorial Research Institute of Medical Sciences, Patna 67. Indira Gandhi Institute Medical Sciences, Patna 68. Patna Medical College, Patna 69. Darbhanga Medical College, Darbhanga 70. SKMCH, Muzaffarpur 71. All India Institute of Medical Sciences, Patna	8. Narayan Medical College, Sasaram
		TrueNAT	72. Anugrah Narayan Magadh Medical College (ANMMC), Gaya 73. Vardhman Institute of Medical Sciences, Pawapuri, Nalanda 74. District Hospital, Siwan 75. District Hospital, Rohtas	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			76. JanNayak Karpoori Thakur Medical College and Hospital, Madhepura	
			77. Govt. Medical College, Bettiah	
			78. District Hospital, Purnia	
			79. District Hospital, Katihar	
			80. District Hospital, East Champaran	
			81. District Hospital, Madhubani	
			82. District Hospital, Buxar	
			83. District Hospital, Khagaria	
			84. District Hospital, Begusarai	
			85. District Hospital, Banka, Bihar	
			86. District Hospital, Gopalganj, Bihar	
			87. District Hospital, Aurangabad, Bihar	
			88. District Hospital, Jehanabad, Bihar	
			89. District Hospital, Nawada, Bihar	
			90. District Hospital, Arwal	
			91. District Hospital, Saharsa, Bihar	
			92. District Hospital, Supaul, Bihar	
			93. District Hospital, Kaimur, Bihar	
			94. District Hospital, Saran, Bihar	
			95. District Hospital, Bhojpur, Bihar	
			96. District Hospital, Kishanganj, Bihar	
			97. District Hospital, Jamui, Bihar	
			98. District Hospital, Lakhisarai, Bihar	

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			99. District Hospital, Munger	
		CB-NAAT	100. Jawaharlal Nehru Medical College, Bhagalpur	9. \$ Sen Diagnostics Pvt. Ltd., Budh Marg, Patna
5.	Chandigarh (3)	RT-PCR	101. Post Graduate Institute of Medical Education & Research, Chandigarh 102. Govt. Medical College, Chandigarh 103. *Institute of Microbial Technology, Chandigarh	
6.	Chhattisgarh (5)	RT-PCR	104. All India Institute of Medical Sciences, Raipur 105. Late Baliram Kashyap M Govt. Medical College, Jagdalpur 106. JNM Medical College, Raipur 107. Late Shri Lakhi Ram Agrawal Memorial Govt. Medical College, Raigarh	
		TrueNat	108. Intermediate Reference Laboratory, Lalpur, Raipur	
7.	Delhi (41) Govt: 18 Private: 23	RT-PCR	109. All India Institute Medical Sciences 110. Lady Hardinge Medical College 111. National Centre for Disease Control 112. Ram Manohar Lohia Hospital 113. Institute of Liver & Biliary Sciences 114. Army Hospital Research & Referral 115. Maulana Azad Medical College	10. Lal Path Labs, Block -E, Sector 18, Rohini, Delhi 11. #Dr Dangs Lab, C-2/1, Safadarjung Development Area, New-Delhi 12. Laboratory Services, Indraprastha Apollo Hospitals, Sarita Vihar, New Delhi

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			116. Vardhman Mahavir Medical College & Safdarjung Hospital	13. Max Lab, Max Super Speciality Hospital, Saket, New-Delhi
			117. University College of Medical Sciences, New Delhi	14. Sir Ganga Ram Hospital Clinical Lab Services, Sir Ganga Ram Hospital, Delhi
			118. Army Base Hospital, New Delhi	15. Oncquest Labs Ltd, 3-Factory Road, New-Delhi
			119. *IGIB, CSIR, New Delhi	16. Prognosis Laboratories, 515-16, Sector 19, Dwarka
			120. Rajiv Gandhi Super Speciality Hospital, Taharpur, Delhi	17. City X-Ray & Scan Clinic Pvt Ltd, 4B/18, Tilak Nagar, New-Delhi
			121. Vallabhbhai Patel Chest Institute (VPCI), Delhi	18. Lifeline Laboratory, H-11, Green Park Extension, New-Delhi
			122. *Defence Institute of Physiology & Allied Sciences (DIPAS), DRDO, Delhi	19. Dept of Lab Services, Dr. B.L. Kapur Memorial Hospital, 5, Pusa Road, New-Delhi
				20. Dept of Laboratory Services, Action Cancer Hospital, A-4, Paschim Vihar (East), New-Delhi
				21. Star Imaging & Path Lab Pvt Ltd, 4B/4, Tilak Nagar, New Delhi
				22. Genestrings Diagnostic Centre Pvt Ltd, 3, MMTC, Geetanjali Enclave, New Delhi
				23. Sterling Accuris Diagnostics, A division of Sterling Accuris Wellness Pvt Ltd, C-65, Block C, Phase I, Okhla, New Delhi



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
				<p>24. CRL Diagnostics Pvt Ltd, Plot No 10, Avtar Enclave, Opposite Metro Pillar 227, Paschim Vihar, Rohtak Road, New Delhi</p> <p>25. Dept of Lab Medicine, HCMCT, Manipal Hospital, Main Road, Sector 6, Dwarka, New Delhi</p> <p>26. Gen-X Diagnostics, 2/6, Sarvapriya Vihar, New Delhi</p> <p>27. Noble Diagnostic Centre, WZ-409C, Janak Park, Hari Nagar, Opposite DDU Hospital, New Delhi</p> <p>28. Mahajan Imaging Pvt Ltd, E-19, Defence Colony, New-Delhi</p> <p>29. Dept of Lab Sciences, Rajiv Gandhi Cancer Institute & Research Centre, Sector 5, Rohini, New-Delhi</p> <p>30. Metropolis Healthcare Ltd. E21, Block-B1, Mohan Cooperative Industrial Estate, South East Delhi</p>
		TrueNat	123. ESIC Hospital, Basaidarapur	31. Aakash Path Lab, Aakash Healthcare & Super speciality Hospital, Road No 201, Sector 3, Dwarka, New Delhi

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
		CB NAAT	124. State TB Training and Demonstration Centre, Jawaharlal Nehru Marg, Delhi Gate 125. Department of Microbiology, National Institute of TB and Respiratory Diseases (NITRD), New Delhi 126. Northern Railway Central Hospital, New Delhi	32. Dr P Bhasin Path Labs (P) Ltd, S 13 Greater Kailash Part 1, New Delhi
8.	Gujarat (41) Govt: 23 Private: 18	RT-PCR	127. BJ Medical College, Ahmedabad 128. MP Shah Govt Medical College, Jamnagar 129. Govt. Medical College, Surat 130. Govt. Medical College, Bhavnagar 131. Govt. Medical College, Vadodara 132. Govt. Medical College, Rajkot 133. NHL Medical College, Ahmedabad 134. GMERS Medical College, Ahmedabad 135. GMERS Medical College, Gandhinagar 136. GMERS Medical College, Valsad 137. ICMR-National Institute of Occupational Health, Ahmedabad 138. Gujarat Cancer & Research Institute, Ahmedabad 139. Surat Municipal Institute of Medical Education & Research (SMIMER), Surat	33. Unipath Specialty laboratory limited, 102, Sanoma Plaza, Opposite Parimal Garden, Besides JMC House, Ellisbridge, Ahmedabad 34. Supratech Micropath Laboratory & Research Institute Pvt Ltd, Kedar, Ahmedabad 35. SN GeneLab Pvt Ltd, President Plaza -A, Near Mahavir Hospital, Nanpura, Surat 36. Pangenomics International Pvt Ltd, Ellis Bridge, Ahmedabad 37. #Dept of Lab Medicine, Zydus Hospitals & Healthcare Research Pvt Ltd, Zydus Hospital Road, Hebatpur, Off S.G. Highway, Thaltej, Ahmedabad 38. #Toprani Advanced Lab Systems, Suflam, 10, Haribhakti Colony, Race Course, Vadodra



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			140. GMERS Medical College and Hospital, Dharpur-Patan, Gujarat 141. Gujarat Adani Institute of Medical Sciences, Bhuj 142. Gujarat Biotechnology Research Center, Gandhinagar 143. Gujarat Forensic Sciences University, Gandhinagar 144. GMERS Medical College, Gotri, Vadodara 145. GMERS Medical College, Himmatnagar 146. Dr. H.L. Trivedi Institute of Transplantation Services, Ahmedabad	39. Dept of Lab Medicine, Apollo Hospitals International Ltd, 1, Bhat, GIDC Estate, Ahmedabad 40. Divine lab, B 201/202, Mangalkirti Apartment, Fatehgunj, Vadodra 41. Green Cross Genetics Lab Pvt Ltd, 104, Sears Towers, Ahmedabad 42. #Sunflower Laboratory, Helmet Circle, Rudra Arcade, Drive In Road, Manav Mandir, MemNagar, Ahmedabad 43. Parul Institute of Medical Sciences & Research (PIMSR), Vadodara 44. Dhiraj Hospital, Smt. B.K. Shah Medical Institute & Research Centre, Vadodara 45. Gujarat Pathology Lab & Diagnostic Centre, 101/102, Span Trade Centre, Paldi, Ahmedabad 46. Scientific Diagnostic Centre Pvt.Ltd, 3,Venunand Raw House, Gulbai Tekra Road, Ellisebridge, Ahmedabad
		TrueNat		47. Salvus Bioresearch Solutions, 2nd Floor, Earth Retail, Science City Circle, S.P. Ring Road, Ahmedabad
		CB NAAT	147. GCS Medical College and Hospital, Ahmedabad	48. Dept of Lab Medicine, Bhailal Amin Gen Hospital, Alembic Road, Gorwa, Vadodra

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			148. AMC MET Medical College and Hospital, Ahmedabad	49. Microcare Lab & TRC, 105, Manthan Point, Unapani Road, Surat 50. Speciality Microtech Laboratory, 121 Akshar Arcade, Navrangpura, Ahmedabad 51. Sterling Accuris Diagnostics, Sterling Hospital, Phase 2, 1st Floor, Race Course Circle (West), Vadodra
9.	Goa (5)	RT-PCR TrueNat	149. #Goa Medical College, Goa 150. North District Hospital, Mapusa 151. Subdistrict Hospital, Ponda 152. South Goa District Hospital (Hospicio Hospital), Margao 153. Sub- District Hospital, Chicalim, Vasco Da Gama	
10.	Haryana (21) Govt: 13 Private: 8	RT-PCR	154. Pt. B.D. Sharma Post Graduate Inst. Of Med. Sciences, Rohtak 155. Command Hospital, Chandimandir 156. BPS Govt. Medical College, Sonipat 157. ESIC Hospital, Faridabad 158. Kalpana Chawla Govt. Medical College, Karnal 159. Govt. Civil Hospital, Panchkula 160. *ICAR-National Research Centre on Equines, Hisar	52. Strand Life Sciences, A-17, Sector 34, Gurugram 53. SRL Limited, GP26, Sector 18, Gurugram 54. Modern Diagnostic & Research Centre-Lab, 363-364/4, JAwahar Nagar. Gurgaon 55. Core Diagnostics Pvt Ltd, Udyog Vihar Phase-3, Gurgaon 56. MolQ Laboratory, Plot 28,29; Sector 18(P), Electronic city, Udyog Vihar, Phase IV, Gurgaon

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			161. *Translational Health Science & Technology Institute, Faridabad 162. #SHKM, Govt. Medical College, Mewat 163. #District Civil Hospital, Ambala 164. Civil Hospital, Gurugram	57. Pathkind Diagnostics Pvt Ltd, Plot 55-56, Phase 4, Udyog Vihar, Sec 18, Gurgaon 58. Department of Pathology and Laboratory Medicine, Medanta-The Medicity, Sector 38, Gurgaon
		TrueNat		59. Apex Diagnostics - 12 Jacaranda Marg, Dlf City Phase - 2, Gurgaon
		CB NAAT	165. IRL, Haryana Govt. Public Health Laboratory, Karnal 166. Maharaj Agrasen Medical College, Agroha, Hisar	
11.	Himachal Pradesh (6)	RT-PCR	167. Indira Gandhi Medical College, Shimla 168. Dr. Rajendra Prasad Govt. Medical College, Tanda 169. Central Research Institute, Kasauli 170. Shri Lal Bahadur Shastri Govt. Medical College, Mandi 171. *CSIR Institute of Himalayan Bioresource Technology, Palampur 172. #Dr. Yashwant Singh Parmar Government Medical College, Nahan	
12.	Jammu & Kashmir (7)	RT-PCR	173. Govt. Medical College, Jammu 174. Command Hospital (NC) Udhampur 175. Sher-i-Kashmir Institute of Medical Sciences, Srinagar	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			176. Govt. Medical College, Srinagar 177. Sheri Kashmir Institute of Medical Science Medical College, Bemina, Srinagar 178. *CSIR Indian Institute of Integrative Medicine (IIIM), Jammu	
		CB NAAT	179. Intermediate Reference Laboratory, Chest Disease Hospital, Dalgate, Srinagar	
13.	Jharkhand (30) Govt: 29 Private: 01	RT-PCR	180. MGM Medical College & Hospital, Jamshedpur 181. Rajendra Institute of Medical Sciences, Ranchi 182. Patliputra Medical College & Hospital, Dhanbad 183. Itki Aarogyashala, Ranchi	60. Tata Main Hospital (Dept of Pathology), Tata Steel, Bistupur, Jamshedpur
		TrueNat	184. District Hospital, Bokaro 185. District Hospital, Chatra 186. District Hospital, Deoghar 187. District Hospital, Dumka 188. District Hospital, Garhwa 189. District Hospital, Giridih 190. District Hospital, Godda 191. District Hospital, Hazaribag 192. District Hospital, Kodarma 193. District Hospital, Lathehar 194. District Hospital, Pakur	

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			195. District Hospital, Palamu 196. District Hospital, Pashchimi Singhbhum 197. District Hospital, Ranchi 198. District Hospital, Sahibganj 199. District Hospital, Dhanbad 200. District Hospital, Gumla 201. District Hospital, Jamtara 202. District Hospital, Khunti 203. District Hospital, Lohardaga 204. District Hospital, Purbi Singhbhum 205. District Hospital, Ramgarh 206. District Hospital, Saraikela Kharsawan 207. District Hospital, Simdega	
		CB NAAT	208. Military Hospital, Namkum, Ranchi	
14.	Karnataka (71) Govt: 41 Private: 30	RT-PCR	209. Hassan Inst. Of Med. Sciences, Hassan 210. Mysore Medical College & Research Institute, Mysore 211. Shivamogga Institute of Medical Sciences, Shivamogga 212. Command Hospital (Air Force), Bengaluru 213. Bangalore Medical College & Research Institute, Bengaluru 214. ICMR-National Institute of Virology, Bangalore Field Unit, Bengaluru	61. Neuberg Anand Reference Laboratory, Anand Tower, #54, Bowring Hospital Road, Bengaluru 62. Cancyte Technologies Pvt Ltd, Sri Shankara Research Centre, Bengaluru 63. Central Diagnostic Lab, Vydehi Institute of Medical Sciences and Research Centre, #82, E.P.I.P. Area, Whitefield, Bengaluru 64. Syngene International Limited, Biocon Park, SEZ, Bommasandra Industrial Area, Phase IV, Bommasandra-Jigani Link Road, Bengaluru



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			215. *Indian Institute of Science, Bengaluru (Department of Biochemistry, Centre for Infectious Disease Research)	65. #Department of Lab Medicine, Narayana Hrudayalaya Ltd, 258/A, Bommasandra Industrial Area, Hosur Road, Bengaluru
			216. Gulbarga Institute of Medical Sciences, Gulbarga	66. Aster Clinical Lab LLP, No 24, Venkatappa Road, Tasker Town, Vasanthanagar, Bangalore
			217. Vijaynagar Institute of Medical Sciences, Bellary	67. Microbiological Lab, 22-D 3, KIADB Industrial Area, 1st Phase, Kumbalagidu, Bengaluru
			218. National Institute of Mental Health and Neuro-Sciences, Bangalore	68. Yenepoya Medical College Hospital Lab, Nithyananda Nagar, Derlakatte, Mangaluru
			219. Wenlock District Hospital, Mangalore	69. Hybrinomics Life Science and diagnostics LLP, Site No 50, Maruthi Township, B. Hanumanthanagar, Bileshivale, Doddagubbi Post, Bengaluru
			220. Karnataka Institute of Medical Sciences, Hubli	70. Shamanur Shivashankarappa Institute of Medical Sciences and Research Centre (SSIMSRC), Davangere
			221. National Institute of Traditional Medicine, Belagavi	71. XCyton Diagnostics Pvt Ltd - Molecular Diagnostic Services, #449, 10th Cross, 4th phase, Peenya, Bengaluru
			222. Dharwad Institute of Mental Health & Neurosciences, Dharwad	72. St. Johns Medical College and Hospital, Bangalore
			223. Kidwai Memorial Institute of Oncology, Bengaluru	73. Kasturba Medical College Manipal
			224. *Instem, Bengaluru	74. Father Muller's Medical College, Mangalore
			225. Mandya Institute of Medical Sciences (MIMS), Mandya	75. JJM Medical College (JJMMC), Davangere
			226. Chamarajanagar Institute of Medical Sciences (CIMS), Chamarajanagar District	76. Manipal Hospital, Bangalore
			227. #Gadag Institute of Medical Sciences, Gadag	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			228. Kodagu Institute of Medical Sciences (KOIMS), Kodagu District 229. Government Virus Diagnostic Laboratory, Shimoga District 230. #Raichur Institute of Medical Sciences, Raichur 231. #Bidar Institute of Medical Sciences, Bidar 232. #Koppal Institute of Medical Sciences, Koppal 233. #Karwar Institute of Medical Sciences, Karwar 234. #Tumkur District Hospital, Tumkur 235. Bowring Lady Curzon Medical College and Research Institute (BLCMRI), Bangalore 236. SNR District Hospital, Kolar	77. #Sakra World Hospital Lab Services, Devarabeesanahalli VArthur Hobli, Bengaluru 78. Kasturba Medical College, Mangalore 79. KS Hegde Medical Academy (KSHEMA), Mangalore 80. Narayana Nethralaya, Department of Molecular Diagnostics, Bangalore 81. #Lab Services, Apollo Hospitals, 154/11, Bannerghatta Road, Bengaluru 82. Kempegowda Institute of Medical Sciences, Bangalore 83. United Hospitals, Kalburgi
		TrueNAT	237. Public health Laboratory, Chikkaballapur District Hospital, Chikkaballapur 238. Public Health Laboratory, Chikmagalur District Hospital, Chikmagalur 239. Udupi District Hospital, Udupi	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			240. Yadgiri District Hospital, Yadgiri 241. Chitradurga District Hospital, Chitradurga 242. District Public Health Laboratory, Kolar District 243. District Public Health Laboratory, Chamarajanagar District 244. Bangalore Bruhat Mahanagara Palike (BBMP) Health Centre (Fever Clinic), Adugodi, Bangalore 245. District Public Health Laboratory, Ramanagara District 246. Jayadeva Institute of Cardiac Sciences, Bangalore	
		CB NAAT	247. Vijayapura District Hospital, Vijayapura 248. Belgaum Institute of Medical Sciences, Belgaum 249. Bagalkot District Hospital, Bagalkot	84. KLES Dr Prabhakar Kore Hospital & MRC Hi Tech Lab, NehruNagar, Belgaum, Belagavi 85. Dept of Pathology & Lab Medicine, Aster CMI Hospital, #43/2, NH 7, International Airport Rd, Sahakar Nagar, Bengaluru 86. Dept of Lab Medicine, Vikram Hospital Pvt Ltd, No 71/1, Millers Road, Bengaluru 87. Department of Laboratory Medicine and Pathology, Columbia Asia Referral Hospital, Yeshwantpur, #26/4, Brigade Gateway, Malleshwaram West, Bengaluru



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
				88. SRL Limited at Fortis hospitals, 154/9, Bannerghatta Main Road, Bengaluru 89. Trident Diagnostics & Healthcare Pvt.Ltd, #313, 2nd main Jagajyothi Nagara, 80 feet outer Ring Road, Kenchanapura Cross bus stop, Nagadevanahalli, Bengaluru 90. NMR Diagnostics Pvt. Ltd, Maratha Mandal Building, P.B.Road, Dharwad
15.	Kerala (34) Govt: 22 Private: 12	RT PCR	250. National Institute of Virology, Field Unit, Allapuzzha 251. Govt. Medical College, Thiruvananthapuram 252. Govt. Medical College, Kozhikode 253. Govt. Medical College, Thrissur 254. Rajiv Gandhi Center for Biotechnology, Thiruvananthapuram 255. Sree Chitra Tirunal Institute of Medical Sciences, Thiruvananthapuram 256. State Public Health Laboratory, Trivandrum 257. Inter University, Kottayam 258. Malabar Cancer Center, Thalassery 259. Central University of Kerala, Periyar, Kasaragod 260. Govt. Medical College, Ernakulam	91. DDRC SRL Diagnostics Pvt Ltd, Panampilly Nagar, Ernakulam 92. MIMS Lab Services, Govindapuram, Kozhikode 93. Lab Services of Amrita Institute of Medical Sciences & Research Centre, AIMS-Ponekkara, Kochi 94. Dane Diagnostics Pvt Ltd, 18/757 (1), RC Road, Palakkad 95. Medivision Scan & Diagnostic Research Centre Pvt Ltd, Sreekandath Road, Kochi 96. MVR Cancer Centre & Research Institute, CP 13/516 B, C, Vellalaserri NIT (via), Poolacode, Kozhikode



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			261. Govt. Medical College, Manjeri 262. Govt. Medical College, Kottayam 263. Govt. Medical College, Kannur 264. Indian Institute of Science Education and Research (IISER), Thiruvananthapuram	
		TrueNat	265. Regional Public Health Laboratory, Pathanamthitta 266. Government Medical College Hospital, Kollam 267. Government TD Medical College, Alappuzha 268. District Public Health Laboratory, Wayanad 269. District TB Centre, Palakkad 270. INHS Sanjivani, Kochi	
		CB NAAT	271. Regional Cancer Centre, Thiruvananthapuram	97. Dept of Pathology and Lab Medicine, Aster Medcity, Aster DM Healthcare Ltd, Kutty Sahib Road, Kothad, Cochin 98. NIMS Medicity, Department of Laboratory Medicine, Aralumoodu, Neyyattinkara, Thiruvananthapuram 99. Rajagiri Hospital Laboratory Services, Rajagiri Hospital, Chunangamvely, Aluva 100. \$ Micro Health LABs, MPS Tower, Kozhikode

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
				101. \$Microbiology Section, Department Of Laboratory Medicine, Kerala Institute Of Medical Sciences, Anamukham, Anayara P.O. Thiruvananthapuram 102. \$ Believers Church Medical College Laboratory, St Thomas Nagar, Kuttapuzha P.O., Thiruvalla
16.	Maharashtra (96) Govt: 53 Private: 43	RT-PCR	272. ICMR-National Institute of Virology, Pune 273. Seth GS Medical College & KEM Hospital, Mumbai 274. Kasturba Hospital for Infectious Diseases, Mumbai 275. National Institute of Virology Field Unit, Mumbai 276. Armed Forces Medical College, Pune 277. BJ Medical College, Pune 278. Command Hospital (SC), Pune 279. Indira Gandhi Govt. Medical College, Nagpur 280. All India Institute of Medical Sciences, Nagpur 281. Govt. Medical College, Nagpur 282. Nagpur Veterinary College, MAFSU, Nagpur	103. Thyrocare Technologies Limited, D37/1, TTC MIDC, Turbhe, Navi Mumbai 104. Suburban Diagnostics (India) Pvt. Ltd., 306, 307/T, 3rd Floor, Sunshine Bld., Andheri (W), Mumbai 105. Metropolis Healthcare Ltd, Unit No. 409-416, 4th Floor, Commercial Building-1, Kohinoor Mall, Mumbai 106. Sir H.N. Reliance Foundation Hospital and Research Centre, Molecular Medicine, Reliance Life Sciences Pvt. Ltd., R-282, TTC Industrial Area, Rabale, Navi Mumbai 107. SRL Limited, Prime Square Building, Plot No 1, Gaiwadi Industrial Estate, SV Road, Goregaon, Mumbai 108. A.G. Diagnostics Pvt Ltd, Nayantara Building, Pune

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			283. #Intermediate Reference Laboratory, Nagpur	109. Kokilaben Dhirubhai Ambani Hospital Laboratory, Four Bungalows, Mumbai
			284. Grant Medical College & Sir JJ Hospital, Mumbai	110. InfeXn Laboratories Private Limited, A/131, Therelek Compound, Road No 23, Wagle Industrial Estate, Thane (W)
			285. Govt. Medical College, Aurangabad	111. iGenetic Diagnostics Pvt Ltd, Krislon House, Andheri East, Mumbai
			286. V. M. Govt. Medical College, Solapur	112. Sahyadri Speciality Labs, Plot No 54, S.No. 89-90, Lokmanya Colony, Kothrud, Pune
			287. Haffkine Institute, Mumbai	113. Metropolis Healthcare Limited, Construction House, 796/189-B, Bhandarkar Institute Road, Pune
			288. Shree Bhausaheb Hire Govt. Medical College, Dhule	114. # SRL Diagnostics - Dr. Avinash Phadke (SRL Diagnostics Pvt Ltd), Mahalaxmi Engineering Estate, 2nd Floor, L.J. Cross Road No 1, KJ Khilnani High School, Mahim (West), Mumbai
			289. Govt. Medical College, Miraj	115. Department of Laboratory Medicine - P.D. Hinduja National Hospital and Medical Research Centre, Veer Savarkar Marg, Mahim, Mumbai
			290. Govt. Medical College, Akola	116. Vaidya Lab Thane, Unit of Millenium Special Lab Pvt Ltd, Odyssey Park, 2nd Floor, 201, Raghunath Nagar, Wagle Estate, Thane
			291. National Institute for Research on Reproductive Health, Mumbai	
			292. Rajiv Gandhi Medical College & CSM Hospital, Kalwa, Thane, Mumbai	
			293. ICMR-National AIDS Research Institute, Pune	
			294. Swami Ramanand Teerth Marathwada University, Nanded	
			295. Mahatma Gandhi Institute of Medical Sciences, Sevagram, Wardha	
			296. Vilasrao Deshmukh Govt. Institute of Medical Sciences, Latur	
			297. INHS Ashvini, Mumbai	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			298. *Tata Memorial Centre ACTREC, Mumbai	117. Genepath Diagnostics India Pvt Ltd, 4th Floor, Above Phadke Hospital, Pune
			299. *Tata Memorial Hospital, Mumbai	118. Daignostic Molecular Laboratory, Dept of Microbiology, Dr. Vasantrao Pawar Medical College Hospital & Research Centre, Vasantdada Nagar, Adgaon, Nashik
			300. *National Centre for Cell Sciences, Pune	119. Dept of Lab Medicine, Dr. Balabhai Nanavati Hospital, Swami Vivekananda Road, Mumbai
			301. *National Environmental Engineering Research Institute, Nagpur	120. Krsnaa Diagnostics Pvt Ltd, Lt. Jayabai Nanasaheb Sutar Maternity Home, Pune
			302. Sant Gadge Baba Amravati University, Amravati	121. Dhruv Pathology and Molecular Diagnostic Lab, Third Floor, Aditya Enclave, Central Bazaar Road, Ramdaspath, Nagpur
			303. #RCSM Govt. Medical College, Kolhapur	122. Dept of Molecular Biology & Genetics, Krishna Institute of Medical Sciences, Karad, Satara
			304. Model Rural Health Research Unit (MRHRU), Sub District Hospital, Agar, Dahanu, Palghar	123. Lab Services, Ayugen Biosciences Pvt Ltd, 562/1, Shivajinagar, Pune
			305. *Indian Institute of Science Education and Research (IISER), Pune	124. MGM Medical College and Hospital, Navi Mumbai
			306. Govt. Medical College, Jalgaon	125. #Ruby Hall Clinic, Dept of Laboratory, Grant Medical Foundation, 40, Sassoon Road, Pune
			307. District General Hospital, Ahmednagar	126. D. Y. Patil Medical College, Kolhapur
			308. Government Medical College, Baramati	
			309. #Govt. Medical College, Chandrapur	
			310. #Govt. Medical College, Yavatmal	
			311. Swami Ramanand Teerth Rural Government Medical College, Ambajogai	
			312. Government Medical College, Gondia	
			313. Agharkar Research Institute, Pune	
			314. District General Hospital, Ratnagiri	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			315. Dr. Shankarrao Chavan Govt. Medical College, Nanded	127. Metropolis Healthcare Limited, Shop No. 1, Ground Floor, Ahilya Building, Savarkar Marg, Thane West, Thane 128. Molecular Diagnostic Laboratory, Department of Pathology, LMMF's Deenanath Mangeshkar Hospital and Research Center, Erandwane, Pune 129. Datar Cancer Genetics Ltd, F-8, D-Road, Ambad MIDC, Nashik 130. Apoorva Diagnostic and Health Care, Bhaktivedanta Hospital and Research Institute, Bhaktivedanta Swami Marg, Sector 1, Mira Bhayandar 131. Dr. DY Patil Medical College Hospital and Research Centre, Pimpri, Pune 132. Molecular Laboratory, Jaslok Hospital and Research Centre, 15, Dr Deshmukh Marg, Peddar Road, Mumbai 133. NM Medical, Harchandrai House, Above Axis Bank, 2nd Floor, Maharshi Karve Road, Marine Lines (E), Mumbai 134. Bharati Vidyapeeth (Deemed to be University) Medical College, Pune



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
		TrueNat	316. Civil Surgeon, District Hospital, Parbhani 317. District Hospital, Satara 318. Daga Memorial Government Women Hospital, Nagpur 319. Navi Mumbai Municipal Corporation General Hospital, F.R.U. Vashi 320. District General Hospital, Gadchiroli 321. Darasha Maternity Home, Solapur Municipal Corporation, Solapur 322. District Hospital, Amravati	135. Qualilife Diagnostics, Balaji Arcade, 1st Floor, 544/A, Netaji Subhash Road, Mulund (W), Mumbai 136. Rural Medical College, Pravara Institute of Medical Sciences, Loni, Ahmednagar 137. Clinicare Speciality Laboratory Pvt. Ltd., Lata Mangeshkar Hospital, Nagpur
		CB NAAT	323. Intermediate Reference Laboratory, Pune 324. Govt. Medical College, Baramati 325. Lokmanya Tilak Municipal General Hospital and Medical College, Mumbai	138. Sunflower Lab & Diagnostic Center, Keshav Kunj, Marve Road, Malad West, Mumbai 139. Aditya Birla Memorial Hospital - Laboratory, Aditya Birla Marg, Chinchwad, Pune 140. Dr. Jariwala Lab & Diagnostics LLP, 1st Floor, Rasraj Heights, Rokadia Lane, Off Mandpeshwar Road, Borivli (W), Mumbai 141. Su-Vishwas Diagnostic Lab, 1st floor Midas height, Ramdaspath, Nagpur 142. \$Jupiter Lifeline Hospitals Limited, Pune 143. Kingsway Hospitals ((A Unit of SPANV Medisearch Lifesciences Pvt Ltd), 44, Kingsway Road, Nagpur

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
17.	Madhya Pradesh (59) Govt: 52 Private: 7	RT-PCR	326. All India Institute of Medical Sciences, Bhopal 327. ICMR-National Institute for Research on Tribal Health, Jabalpur 328. Mahatma Gandhi Memorial Medical College, Indore 329. Gandhi Medical College, Bhopal 330. Bhopal Memorial Hospital & research Centre, Bhopal 331. Gajra Raja Medical College, Gwalior 332. Bundelkhand Medical College, Sagar 333. SS Medical College, Rewa 334. *Defence Research & Development Organization, Gwalior 335. *ICAR-NIHSAD, Bhopal 336. Govt. Medical College, Ratlam 337. Netaji Subhash Chandra Bose Medical College, Jabalpur 338. Govt. Medical College, Khandwa 339. Atal Bihari Vajpayee Government Medical College (ABVGMC), Vidisha 340. *IISER, Bhopal	144. \$ Jupiter Hospital, Eastern Express Highway, Thane West 145. Chirayu Medical College & Hospital, Bhopal Indore Highway, Bhaisakhedi, Bhopal 146. #Central Research Lab, R D Gardi Medical College, Surasa, Ujjain 147. Central Lab, MZ 117-118, Yeshwant Plaza, Indore 148. Lab Medicine, Bansal Hospital, A unit of Ayushman Medical Diagnostics Pvt Ltd, C-sector Shahpura, Bhopal 149. Sri Aurobindo Institute of Medical Sciences, Indore 150. L. N. Medical College & J. K. Hospital, Bhopal



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
		TrueNAT	341. District Tuberculosis Centre, Bhopal 342. District Hospital Gwalior 343. District Hospital Morena 344. District Hospital Chhatarpur 345. District Hospital Damoh 346. District Hospital Sagar 347. District Hospital Tikamgarh 348. District Hospital, Mandsaur 349. District Hospital, Neemuch 350. District Tuberculosis Centre, Indore 351. District Hospital Chhindwara 352. District Hospital, Jabalpur 353. District Hospital, Shahdol 354. District Hospital, Burhanpur 355. District Hospital, Singrauli 356. District Tuberculosis Centre, Raisen 357. District Hospital, Bhind 358. District Hospital, Datia 359. District Hospital, Sheopur 360. District Hospital, Shivpuri 361. District Hospital, Alirazpur 362. District Hospital, Barwani 363. District Hospital, Dhar 364. District Hospital, Jhabua	151. Sampurna Sodani Diagnostic Clinic, LG-1, Morya Centre, 16/1, Race Course Road, Indore



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			365. District Hospital, Khargone 366. District Hospital, Agarmalwa 367. District Hospital, Shajapur 368. District Hospital, Ujjain 369. District Hospital, Dindori 370. District Tuberculosis Centre, Mandla 371. District Hospital, Seoni 372. District Hospital, Satna 373. District Hospital, Sidhi 374. District Hospital, Singrauli 375. District Hospital, Umaria 376. District Hospital, Panna 377. District Hospital, Rewa	
18.	Manipur (2)	RT-PCR	378. Jawaharlal Nehru Institute of Med. Sciences, Imphal-East, Manipur 379. Regional Institute of Medical Sciences, Imphal	
19.	Meghalaya (3)	RT-PCR	380. North Eastern Indira Gandhi Regional Institute of Health & Medical Sciences, Shillong, Meghalaya	
		TrueNAT	381. Pasteur Institute, Shillong 382. Civil Hospital, Tura	
20.	Mizoram (2)	RT-PCR	383. Zoram Medical College, Falkawn	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
21.	Nagaland (7)	TrueNat	384. Civil Hospital, Lunglei	
		RT-PCR	385. State Referral BSL-3 Laboratory, Naga Hospital, Kohima	
22.	Odisha (20) Govt: 15 Private: 05	RT-PCR	386. Imkongliba Memorial District Hospital, Mokokchung	
			387. District Hospital, Mon	
			388. District Hospital, Dimapur, Nagaland	
			389. CHC, Jalunkie, Nagaland	
			390. District Hospital, Zunheboto	
			391. District Hospital, Wokha	
			392. ICMR-Regional Medical Research Centre, Bhubaneswar (High-throughput Laboratory)	152. Dept of Lab Services, Apollo Hospitals, Bhubaneswar
			393. All India Institute of Medical Sciences, Bhubaneswar	153. IMS & SUM Hospital, Bhubaneswar
			394. SCB Medical College and Hospital, Cuttack	154. InDNA Life Sciences Pvt Ltd, 2nd Floor, KIIT TBI, Bhubaneswar
			395. MKCG Medical College, Berhampur	
			396. Ispat General Hospital, Rourkela	
			397. Veer Surendra Sai institute of Medical Science & Research, Sambalpur	
			398. *Institute of Life Sciences, Bhubaneswar	
			399. *ICAR- International Centre for Foot and Mouth Disease, Khordha, Odisha	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			400. *Indian Institute of Science Education and Research (IISER), Berhampur 401. #Bhima Bhoi Medical College and Hospital, Bolangir 402. #Pandit Raghunath Murmu Medical College, Baripada	
		TrueNAT	403. SLN Medical College and Hospital, Koraput 404. Tribal Field Unit of ICMR-RMRC, Bhawanipatna, Kalahandi 405. Tribal Field Unit of ICMR-RMRC, Rayagada 406. Fakir Mohan Medical College and Hospital, Balasore	
		CB NAAT		155. Central Lab, AMRI Hospitals, Plot No 1, Khandagiri, Bhubaneswar 156. Kalinga Institute of Medical Science (KIMS), Dept. of Microbiology, Bhubaneswar
23.	Puducherry (4) Govt: 3 Private: 1	RT-PCR	407. #Jawaharlal Institute of Postgraduate Medical Education & Research, Puducherry 408. Indira Gandhi Medical College, Puducherry	

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
		TrueNat		157. Pondicherry Institute of Medical Sciences, Ganapathichettikulam, Kalapet, Puducherry
		CB NAAT	409. Intermediate Reference Laboratory, Govt. Hospital for Chest Diseases, Gorimedu, Puducherry	
24.	Punjab (13) Govt: 9 Private: 4	RT-PCR	410. Govt. Medical College, Amritsar 411. Govt. Medical College, Patiala 412. Guru Gobind Singh Medical University, Faridkot	158. Tuli Diagnostic Centre, Majitha Road, Amritsar 159. Christian Medical College, Ludhiana
		TrueNat	413. District Hospital, Barnala, Punjab 414. District Hospital, Jalandhar, Punjab 415. District Hospital, Ludhiana, Punjab 416. District Hospital, Mansa, Punjab 417. District Hospital, Pathankot, Punjab	
		CB-NAAT	418. Intermediate Reference Laboratory, Patiala	160. Department of Microbiology, Dayanand Medical College & Hospital, Tagore Nagar, Civil Lines, Ludhiana 161. Dr Bhasin Path labs , A 96,97,98, Ranjit Avenue , Amritsar
25.	Rajasthan (24) Govt: 21 Private: 3	RT-PCR	419. Sawai Man Singh Medical College, Jaipur 420. Rajasthan University of Health Sciences Medical College, Jaipur	162. Central Lab, The Mahatma Gandhi University of Medical Sciences and Technology, RIICO Institution Area, Sitapura, Tonk Road, Jaipur

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			421. Dr. Sampurnan and Medical College, Jodhpur 422. Jhalawar Medical College, Jhalawar 423. RNT Medical College, Udaipur 424. SP Medical College, Bikaner 425. All India Institute of Medical Sciences, Jodhpur 426. JLN Medical College, Ajmer 427. Govt. Medical College, Kota 428. ICMR-National Institute for Implementation Research on Non-Communicable Diseases, Jodhpur 429. RVRS Govt. Medical College, Bhilwara 430. Govt. Medical College, Dungarpur 431. Pandit Deendayal Upadhyaya Medical College, Churu 432. Govt. Medical College, Bharatpur 433. Govt. Medical College, Sikar 434. Govt. Medical College, Barmer 435. Govt. Medical College, Pali 436. Govt. BDK District Hospital, Jhunjhunu 437. Military Hospital, Jaipur 438. District Hospital, Sirohi	163. Dr. B Lal Clinical Lab Pvt Ltd, 6-E, Malviya Industrial Area, Malviya Nagar, Jaipur 164. #Brig T.K. Narayanan Dept of Pathology, Santokaba Durlabhji Memorial Hospital Cum Medical Research Institute, Jaipur (TruNat and RTPCR) 165. Jaipur National University Institute for Medical Sciences and Research Centre, Jaipur
26.	Tamil Nadu (78)	RT-PCR	439. King Institute of Preventive Medicine & Research, Chennai	166. Dept. of Clinical Virology, CMC, Vellore

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
	Govt: 45 Private: 33		440. Madras Medical College, Chennai 441. Stanley Medical College, Chennai 442. Govt. Kilpauk Medical College, Chennai 443. ICMR-National Institute for Research in Tuberculosis, Chennai 444. State Public Health Laboratory, Chennai 445. ICMR-National Institute of Epidemiology, Chennai 446. Dr. MGR Medical University, Chennai 447. Dr. ALM PG Institute of Basic Medical Sciences, Chennai 448. Govt. Medical College & Hospital, Omandurar Govt. Estate, Chennai 449. Govt. Theni Medical College, Theni 450. Tirunelveli Medical College, Tirunelveli 451. Govt. Medical College, Thiruvavur 452. Kumar Mangalam Govt. Medical College, Salem 453. Coimbatore Medical College, Coimbatore 454. Govt. Medical College & ESIC Hospital, Coimbatore 455. Govt. Medical College, Villupuram 456. Madurai Medical College, Madurai 457. K A P Viswanatham Govt. Medical College, Trichy	167. Department of Laboratory Services, Apollo Hospitals Enterprise Ltd, Chennai 168. Neuberg Ehrlich Lab Pvt Ltd, 46-48 Masilamani Road, Balaji Nagar, Chennai 169. Sri Ramachandra Medical College & Research Institute, Porur, Chennai 170. Microbiology Lab, Veerakeralam Road, Coimbatore 171. YRG CARE, Taramani, Chennai 172. Hitech Diagnostic Centre- A Unit of Dr. Ganesan's Hitech Diagnostic Centre Pvt Ltd, Poonamallee High Road, Chennai 173. PSG Hospitals Diagnostic Centre, Avinashi Road, Peelamedu, Coimbatore 174. Medall Healthcare Pvt Ltd, 17, Race View Colony, 2nd street, Race Course Road, Guindy, Chennai 175. Meenakshi Labs Madurai A unit of Sunmed Healthcare Pvt Ltd, 2nd Floor, Meenakshi Mission Hospital and Research Centre, Madurai 176. Metropolis Healthcare Limited, No 3, Jaganathan Road, Nungambakkam, Chennai

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			458. Perundurai Medical College, Perundurai	177. #Clinical Lab Services, Dr. Rela Institute & Medical Centre, #7, CLC Works Rd, Shankar Nagar, Chennai
			459. Govt. Dharmapuri Medical College, Dharmapuri	178. Doctors' Diagnostic Centre, 123/1, Puthur High Road, Thiruchirapalli
			460. Govt. Medical College, Vellore	179. Molecular Testing, Institute of Lab Medicine, Kovai Medical Center & Hospital, 99, Avinashi Road, Coimbatore
			461. Thanjavur Medical College, Thanjavur	180. Chettinad Hospital and Research Institute, Chengalpattu
			462. Kanyakumari Govt. Medical College, Nagercoil	181. Nu-Med Labs, 15A, Nellukara Street, Kanchipuram
			463. Govt. Thoothukudi Medical College, Thoothukudi	182. BioLine Laboratory, 43B-1, Cowley Brown Road, RS Puram, Coimbatore
			464. Institute of Vector Control & Zoonoses, Hosur	183. Premier Health Center, Crescent Court, Ground Floor No 963, Poonamallee High Road, Purasawalkam, Chennai
			465. Pasteur Institute of India, Coonoor	184. Dept of Lab Medicine, Royalcare Super Speciality Hospital Ltd, 1/520, L&T Road, Neelambur, Coimbatore
			466. Rajah Muthiah Medical College, Chidambaram	185. #VRR Diagnostics, #87, Burkit Road, T. Nagar, Chennai
			467. Govt. Medical College, Karur	186. Lab Services, Apollo Speciality Hospitals, P 3, KK Nagar East 1st Street, Madurai
			468. Govt. Tiruvannamalai Medical College & Hospital, Tiruvannamalai	
			469. Chengalpattu Govt. Medical College, Kancheepuram	
			470. Govt. Medical College and Hospital, Pudukkottai	
			471. Govt. Shivagangai Medical College, Shivagangai	
			472. Govt. District Headquarters Hospital, Virrudhu Nagar	

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			473. Govt. District Headquarters Hospital, Ramanathapuram 474. Govt. District Headquarters Hospital, Ariyalur 475. Govt. District Headquarters Hospital, Tiruppur 476. Govt. Kallakruichi Hospital, Kallakurichi 477. Govt. District Headquarters Hospital, Tiruvallur 478. Govt. District Headquarters Hospital, Namakkal 479. *Central Leather Research Institute, Adyar, Chennai 480. Government Headquarters Hospital, Dindigul 481. C.D Hospital, Greater Chennai Corporation, Chennai 482. Government District Head Quarters Hospital, Nagapattinam	187. Orbito Asia diagnostics, Puliyakulam road, Coimbatore 188. Lifecell International Pvt Ltd, No 26, Vandalur - Kelambakkam Main Road, Keelakottaiyur, Chennai 189. Vivek Laboratories, 1159, K.P. Road, Nagercoil, Kanniyakumari 190. Krsnaa Diagnostics Pvt Ltd, Krsnaa Diagnostics Coimbatore Medical College & Hospital, No 1619 A, Trichy Road, Coimbatore 191. Central Laboratory, Sree Balaji Medical College and Hospital, Chennai 192. Aarthi Scans and Labs. No 60, 100 feet road, Vadapalani, Chennai 193. Balaji Medical Centre, Old No 18, New No 4, Jagadeeswaran Street, T.Nagar, Chennai
		TrueNat		194. Karpaga Vinayaga Institute of Medical Sciences, Madhuranthgam Chengalpet
		CB NAAT	483. Government Hospital of Thoracic Medicine, Sanatorium, Chennai Tambaram	195. MIOT Hospitals - Dept of Lab Medicine, 4/112, Mount Poonamallee Road, Manapakkam, Chennai

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
				196. \$ Madras Medical Mission Clinical Lab Services, 4-A, Dr. J. Jayalalitha Nagar, Mogappair East, Chennai 197. \$Clinical Lab Services, Sundaram Medical Foundation, Dr. Rangarajan Memorial Hospital, 9C, 4th Avenue, Shanthi Colony, Anna Nagar, Chennai 198. VHS Lab Services, VHS Hospital, Rajiv Gandhi Salai, Taramani, Chennai
27.	Telangana (26) Govt: 9 Private: 17	RT-PCR	484. Gandhi Medical College, Secunderabad 485. Osmania Medical College, Hyderabad 486. Sir Ronald Ross of Tropical & Communicable Diseases, Hyderabad. 487. Nizam's Institute of Medical Sciences, Hyderabad 488. Institute of Preventive Medicine, Hyderabad 489. ESIC Medical College, Hyderabad 490. Kakatiya Medical College, Warangal 491. *Centre for Cellular & Molecular Biology, Hyderabad 492. *Centre for DNA Fingerprinting & Diagnostics, Hyderabad	199. Laboratory Services, Apollo Hospitals, 6th Floor, Health Street Building, Jubilee Hills, Hyderabad 200. Vijaya Diagnostic Centre Pvt Ltd, Street No 19, Himayath Nagar, Hyderabad 201. Vimta Labs Ltd, Plot No 142, Phase 2, IDA Cherlapally, Hyderabad 202. Apollo Health and Lifestyle Limited, Diagnostic Labortory, Bowenpally, Secunderabad 203. Dr. Remedies Labs Private Ltd, A3, Titus Plaza, Sharma Commercial Complex, Punjagutta, Hyderabad 204. Pathcare Labs Pvt Ltd, Medchal, Hyderabad



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
				205. American Institute of Pathology And Lab Sciences Pvt Ltd, Citizens Hospital, Serilingampally, Hyderabad 206. Medcis Pathlabs India Pvt Ltd, Plot No 16 & 17, Swathi Plaza, Anand Nagar, New Bowenpally, Secunderabad 207. Department of Lab Medicine, Yashoda Hospital, 9th Floor, 1-1-156 & 157, Alexander Road, Secunderabad 208. Biognosys Technologies (India) Pvt Ltd, #8-148/174/11, NRI Colony, Near Aleap Industrial Area, Medchal, Malkajgiri 209. Tenet Diagnostics, Plot No 51, Kineta Towers, Journalist Colony, Road No 3, Banjara Hills, Hyderabad 210. AIG Hospitals, Survey No 136, Plot No 2/3/4/5, 1, Mindspace Rd, Gachibowli, Hyderabad 211. Cell Correct Diagnostics, Virinchi Hospitals, Road No 1, Banjara Hills, Hyderabad 212. Krishna Institute of Medical Sciences Ltd, Dept of Lab Services, 1-8-31/1, Minister Road, Secunderabad

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
				213. MAPMYGENOME India Ltd, Royal Demeure, Plot No 12/2, Sector-1, HUDA Techno Enclave, Madhapur, Hyderabad 214. LEpra Society-Blue Peter Public Health and Research Centre, Cherlapally, Near TEC Building, Hyderabad
		TrueNAT		215. Dept of Lab Medicine, Star Hospital, A Unit of UniMed Healthcare Pvt Ltd, 8-2-594/B, Road No 10, Banjara Hills, Hyderabad
		CB NAAT	493. Rajiv Gandhi Institute of Medical Sciences, Adilabad	
28.	Tripura (1)	RT-PCR	494. Govt. Medical College, Agartala	
29.	Uttar Pradesh (108)	RT-PCR	495. King George Medical University, Lucknow 496. Institute of Medical Sciences, Banaras Hindu University, Varanasi 497. Jawaharlal Nehru Medical College, Aligarh 498. Command Hospital, Lucknow 499. Lala Lajpat Rai Memorial Medical College, Meerut 500. Sanjay Gandhi Post Graduate Institute, Lucknow 501. MLN Medical College, Allahabad	216. RML Mehrotra Pathology Pvt Ltd, Nirala Nagar, Lucknow 217. Dept of Lab Medicine, Jaypee Hospital, Sector 128, Noida 218. Central Lab, Sharda Hospital, Plot no 32,34, Knowledge Park-III, Greater Noida 219. Medical Testing Lab, Yashoda Superspeciality Hospital, H-1, 24, 26-27, Kaushambi, Ghaziabad

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			502. Uttar Pradesh University of Medical Sciences (Formerly Uttar Pradesh RIMS), Saifai	
			503. MLB Medical College, Jhansi	
			504. ICMR-Regional Medical Research Centre, Gorakhpur	
			505. SN Medical College, Agra	
			506. #ICMR-National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra	
			507. RML Institute of Medical Sciences, Lucknow	
			508. Govt. Institute of Medical Sciences, Noida	
			509. #GSVM Medical College, Kanpur	
			510. National Institute of Biologicals, Noida (High-throughput Laboratory)	
			511. BRD Medical College, Gorakhpur	
			512. *Indian Institute of Toxicology Research, Lucknow	
			513. *Birbal Sahni Institute of Palaeosciences, Lucknow	
			514. *Central Drug Research Institute, Lucknow	
			515. *ICAR- Indian Veterinary Research Institute (IVRI), Izatnagar	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			516. Super Specialty Pediatric Hospital and Postgraduate Teaching Institute (SSPHPGTI), Noida 517. College of Veterinary Sciences and Animal Husbandry, UP Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vishwavidyalaya evam Go Anusandhan Sansthan, Mathura	
		TrueNat	518. District Combined Hospital, District Balrampur 519. District Combined Hospital, District Basti 520. Sarojani Naidu Samarak Hospital, District Firozabad 521. Babu Eswar Saran District Hospital, Gonda 522. Amar Shahid late Uma Nath Singh District Hospital, Jaunpur 523. District Hospital, Bahraich 524. District Male Hospital, Ayodhya 525. District Combined Hospital, Mahrajganj 526. District Femal Hospital, Muzaffarnagar 527. District Male Hospital, Pratapgarh 528. District Hospital, Ballia	220. Heritage Speciality Lab, Lanka, Varanasi



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			529. Pt.Ramprasad Bismil, District Combined Hospital Shahjahanpur	
			530. Bairister Yusuf Emam, Divisional Hospital, Mirzapur	
			531. Mahatama Gandhi, District Combined Hospital, Siddharth Nagar	
			532. Balrampur Hospital, Lucknow	
			533. Malkhan Singh Joint District Hospital, Aligarh	
			534. District Hospital, Ambedkar Nagar	
			535. Pt. Din Dayal Upahadhy, District Combined Hospital, Moradabad	
			536. Motilal Nehru Divisional Hospital, Prayagraj	
			537. Divisional Hospital, Azamgarh	
			538. District Male Hospital, Budaun	
			539. Babu Mohan Singh, Joint District Hospital, Deoria	
			540. Bheemrao Ambedkar Multi Superspeciality District Hospital, G. B Nagar	
			541. Netaji Subhash Chandra Bose District Hospital, Gorakhpur	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			542. Rana Devi Madhav Singh, District Hospital, Raebareli	
			543. District Hospital, Sultanpur	
			544. Maharana Pratap Joint District Hospital, Bareilly	
			545. Rafi Ahmad Kidwai memorial District Hospital, Barabanki	
			546. District Hospital, Etah	
			547. M.M.G District Hospital, Ghaziabad	
			548. Joint District Hospital, Manjhanpur, Kaushambi	
			549. District Male Hospital, Sitapur	
			550. District Male Hospital, Kheri	
			551. Babu Banarasi Das govt. District Hospital, Bulandsahar	
			552. District Hospital, Agra	
			553. Joint District Hospital, Amethi	
			554. District Hospital, Baghpat	
			555. District Male & Eye Hospital, Padrauna, Kushinagar	
			556. U.H.M District Male Hospital, Kanpur Nagar	
			557. P.L. Sharma District Hospital, Meerut	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			558. Shadilal Memorial Community Health Centre, Shamli	
			559. Uma Shankar Dixit Joint District Hospital, Unnao	
			560. S.S.P.G District Hospital, Varanasi	
			561. 100 Bedded District Hospital, Auraiya	
			562. District Hospital, Banda	
			563. District Combined Hospital, Bijnor	
			564. Pt. Kamalapati Tripathi Joint District Hospital, Chandauli	
			565. Joint District Hospital, Chitrakoot	
			566. Dr. Bheemrao Ambedkar District Hospital, Etawah	
			567. Dr. Ram Manohar Lohia District Hospital, Farrukabad	
			568. District Hospital, Fatehpur	
			569. Dr. Mukhtar Ansari District Hospital, Ghazipur	
			570. Deewan Satrugghan District Hospital, Hamirpur	
			571. District Hospital, Hapur	
			572. Pt. Ramdayal Trivedi District Hospital, Hardoi	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			573. Bangla District Hospital, Hathras 574. Joint District Hospital, J.P Nagar 575. District Male Hospital, Jalaun 576. Divisional District Hospital, Jhansi 577. 100 Bedded District Hospital, Kannauj 578. Joint District Hospital, Akbarpur, Kanpur Dehat 579. Joint District Hospital, Kanshiram Nagar 580. Manywar Kanshiram Joint District Hospital, Lalitpur 581. District Hospital, Mahoba 582. Maharaja Tez Singh District Hospital, Mainpur 583. Mahrishi Dayanad Saraswati District Hospital, Mathura 584. District Hospital, Ghazipur Tiraha, Mau 585. Joint District Hospital, Pilibhit 586. District Hospital, Rampur 587. Seth Baldev Das District Hospital, Saharanpur 588. Joint District Hospital, Manjhanpur, Sambhal 589. Joint District Hospital, Sant Kabir Nagar	



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			590. Maharaja Balwant District Hospital, Santravidas Nagar 591. Joint District Hospital, Bhinga, Shrawasti 592. Joint District Hospital, Robertsganj, Sonbhadra	
		CB NAAT		221. \$ Gian Life Care Ltd, 7/216(6), Swaroop Nagar, Kanpur 222. \$ Dept of Microbiology, Apollomedics Super Speciality Hospitals, KBC-31, Sector B, LDA Colony, Kanpur Road, Lucknow 223. Scientific Pathology Agra, Durga Commercial Complex, Hariparwat Delhi Gate, Agra 224. \$ Department of Lab Sciences, Regency Hospital, A-2, Sarvodaya Nagar, Kanpur 225. \$ Charakdhar Diagnostics Pvt. Ltd. Basement, 292/05 Tulsidas Marg, Chowk, Near King George Medical University, Lucknow
30.	Uttarakhand (6) Govt: 5 Private: 1	RT-PCR	593. Govt. Medical College, Haldwani 594. All India Institute of Medical Sciences, Rishikesh 595. Doon Medical College, Dehradun	226. #Dr. Ahuja's Pathology and Imaging Centre, 7-B, Astley Hall, Dehradun

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			596. Veer Chandra Singh Garhwali Govt. Institute of Medical Science & Research, Srinagar, Pauri, Garhwal 597. *CSIR- Indian Institute of Petroleum, Dehradun	
31.	West Bengal (47) Govt: 33 Private: 14	RT-PCR	598. ICMR-National Institute of Cholera & Enteric Diseases, Kolkata 599. Institute of Post Graduate Medical Education & Research, Kolkata 600. Midnapore Medical College, Midnapore 601. North Bengal Medical College, Darjeeling 602. School of Tropical Medicine, Kolkata 603. Malda Medical College & Hospital, Malda 604. Command Hospital, Kolkata 605. Chittaranjan National Cancer Institute, Kolkata 606. R.G. Kar Medical College & Hospital, Kolkata 607. Murshidabad Medical College, Behrampore, Murshidabad 608. Nil Ratan Sircar Medical College, Kolkata 609. Bankura Medical College, Bankura 610. Suri Sadar Hospital, Birbhum 611. #Medical College, Kolkata	227. Apollo Gleneagles Hospitals, 58 Canal Circular Road, Kolkata 228. Tata Medical Center, Rajarhat, Kolkata 229. Suraksha Diagnostic Pvt Ltd (Dept of Lab Services), 12/1, Premises No 02/0327, DG Block (Newtown), Action Area 1D, Newtown, Kolkata 230. Dr. Lal Pathlabs Ltd – Kolkata Reference lab, Plot No CB-31/1, Premises No 031-0199, Street No 199, Action Area 1C, Newtown, Kolkata 231. Dept of Lab Services, Medica Superspeciality Hospital, 127, Mukundpur, E.M. Bypass, Kolkata 232. Remedy Life Care, Plot 6, Nani Gopal Roy Chowdhury Avenue, Entally, Padmapukur On Main Road, Kolkata 233. #Shri Ramkrishna Institute of Medical Sciences & Sanaka Hospitals, Malandighi, P.S. Kanksha, Durgapur



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			612. College of Medicine and JNM Hospital, Kalyani, Nadia	234. #Laboratory Services, Peerless Hospitex Hospital & Research Centre, 360, Panchasayar, Kolkata
		TrueNAT	613. Calcutta National Medical College and Hospital, Kolkata 614. Raiganj Govt. Medical College and Hospital, Raiganj 615. Falakata SSH Hospital, District Alipurduar 616. Jhargram District Hospital, Jhargram District 617. Rampurhat Govt. Medical College and Hospital, Rampurhat, Birbhum 618. Diamond Harbour Govt. Medical College and Hospital, Diamond Harbour 619. Asansol District Hospital, Asansol 620. Balurghat District Hospital, Dakshin Dinajpur 621. Jangipur Sub-Divisional Hospital, Murshidabad 622. Uluberia Sub Divisional Hospital, Howrah 623. Serampore Walsh Sub-divisional Hospital, Hugli	235. Anandaloke Sonoscan Centre Pvt. Ltd., 3/3 Hill Cart Road, Near Mahananda Bridge, Siliguri



S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
			624. Biswa Bangla Krirangan SARI/COVID Hospital, Jalpaiguri 625. Chanchal Sub-divisional Hospital (SDH), Malda 626. Purulia Government Medical College and Hospital, Purulia 627. M R Bangur District Hospital, Kolkata 628. Cooch Behar Government Medical College, Cooch Behar	
		CB-NAAT	629. Burdwan Medical College, Burdwan 630. College of Medicine and Sagore Dutta Hospital, Kolkata	236. AMRI Hospitals, Dept of Lab Medicine, JC 16-17, Sector III, Salt Lake City, Kolkata 237. The Calcutta Medical Research Institute (Dept of Pathology), 7/2 Diamond Harbour Raod, Kolkata 238. \$Dept of Lab Medicine, AMRI Hospital, 38/1A, Gariahat Road, Kolkata 239. SRL Limited, P S Srijan Tech Park, DN-52, Saltlake Sector V, Kolkata 240. Woodlands Multispeciality Hospital Limited (Department Of Pathology), 8/5 Alipore Road, Kolkata
32.	Andaman & Nicobar Islands (3)	RT-PCR	631. ICMR-Regional Medical Research Centre, Port Blair	

S. No.	Names of States	Test Category	Names of Government Institutes	Names of Private Institutes
		TrueNat	632. A&N Islands Institute of Medical Sciences, Port Blair	
		CB NAAT	633. GB Pant Hospital, Port Blair	
33.	Dadra & Nagar Haveli (1)	RT-PCR	634. Shri Vinoba Bhave Civil Hospital, Silvassa	
34.	Sikkim (2)		635. Virus Research and Diagnostic Laboratory, STNM Hospital, Gangtok	
		TrueNAT	636. Intermediate Reference Laboratory, STNM Hospital, Gangtok	
35.	Leh-Ladakh (1)	RT-PCR	637. Sonam Nurboo Memorial Hospital, Leh	



AIIMS/ ICMR-COVID-19 National Task Force/Joint Monitoring Group (Dte.GHS)

Ministry of Health & Family Welfare, Government of India

CLINICAL GUIDANCE FOR MANAGEMENT OF ADULT COVID-19 PATIENTS

22nd April 2021

COVID-19 patient

Mild disease

Upper respiratory tract symptoms (&/or fever) WITHOUT shortness of breath or hypoxia

Home Isolation & Care

MUST DOs

- ✓ Physical distancing, indoor mask use, strict hand hygiene.
- ✓ Symptomatic management (hydration, anti-pyretics, anti-tussive, multivitamins).
- ✓ Stay in contact with treating physician.
- ✓ Monitor temperature and oxygen saturation (by applying a SpO₂ probe to fingers).

Seek immediate medical attention if:

- Difficulty in breathing
- High grade fever/severe cough, particularly if lasting for >5 days
- A low threshold to be kept for those with any of the high-risk features*

MAY DOs

Therapies based on low certainty of evidence

- Tab Ivermectin (200 mcg/kg once a day for 3 days). Avoid in pregnant and lactating women.
- OR
- Tab HCQ (400 mg BD for 1 day f/b 400 mg OD for 4 days) unless contraindicated.
- ❖ Inhalational Budesonide (given via Metered dose inhaler/ Dry powder inhaler) at a dose of 800 mcg BD for 5 days) to be given if symptoms (fever and/or cough) are persistent beyond 5 days of disease onset.

Moderate disease

Any one of:

1. Respiratory rate ≥ 24 /min, breathlessness
2. SpO₂: 90% to $\leq 93\%$ on room air

ADMIT IN WARD

Oxygen Support:

- Target SpO₂: 92-96% (88-92% in patients with COPD).
- Preferred devices for oxygenation: non-rebreathing face mask.
- Awake proning encouraged in all patients requiring supplemental oxygen therapy (sequential position changes every 2 hours).

Anti-inflammatory or immunomodulatory therapy

- Inj. Methylprednisolone 0.5 to 1 mg/kg in 2 divided doses (or an equivalent dose of dexamethasone) usually for a duration of 5 to 10 days.
- Patients may be initiated or switched to oral route if stable and/or improving.

Anticoagulation

- Conventional dose prophylactic unfractionated heparin or Low Molecular Weight Heparin (weight based e.g., enoxaparin 0.5mg/kg per day SC). There should be no contraindication or high risk of bleeding.

Monitoring

- Clinical Monitoring: Work of breathing, Hemodynamic instability, Change in oxygen requirement.
- Serial CXR; HRCT chest to be done ONLY if there is worsening.
- Lab monitoring: CRP and D-dimer 48 to 72 hrly; CBC, KFT, LFT 24 to 48 hrly; IL-6 levels to be done if deteriorating (subject to availability).

Severe disease

Any one of:

1. Respiratory rate >30 /min, breathlessness
2. SpO₂ $< 90\%$ on room air

ADMIT IN ICU

Respiratory support

- Consider use of NIV (Helmet or face mask interface depending on availability) in patients with increasing oxygen requirement, if work of breathing is LOW.
- Consider use of HFNC in patients with increasing oxygen requirement.
- Intubation should be prioritized in patients with high work of breathing /if NIV is not tolerated.
- Use conventional ARDSnet protocol for ventilatory management.

Anti-inflammatory or immunomodulatory therapy

- Inj Methylprednisolone 1 to 2mg/kg IV in 2 divided doses (or an equivalent dose of dexamethasone) usually for a duration 5 to 10 days.

Anticoagulation

- Weight based intermediate dose prophylactic unfractionated heparin or Low Molecular Weight Heparin (e.g., Enoxaparin 0.5mg/kg per dose SC BD). There should be no contraindication or high risk of bleeding.

Supportive measures

- Maintain euvolemia (if available, use dynamic measures for assessing fluid responsiveness).
- If sepsis/septic shock: manage as per existing protocol and local antibiogram.

Monitoring

- Serial CXR; HRCT chest to be done ONLY if there is worsening.
- Lab monitoring: CRP and D-dimer 24-48 hourly; CBC, KFT, LFT daily; IL-6 to be done if deteriorating (subject to availability).

After clinical improvement, discharge as per revised discharge criteria.

EUA/Off label use (based on limited available evidence and only in **specific circumstances**):

- **Remdesivir (EUA)** may be considered **ONLY** in patients with
 - Moderate to severe disease (requiring **SUPPLEMENTAL OXYGEN**), AND
 - No renal or hepatic dysfunction (eGFR <30 ml/min/m²; AST/ALT >5 times ULN (Not an absolute contradiction), AND
 - Who are within 10 days of onset of symptom/s.
 - ❖ Recommended dose: 200 mg IV on day 1 f/b 100 mg IV OD for next 4 days.
 - Not to be used in patients who are NOT on oxygen support or in home settings
- **Tocilizumab (Off-label)** may be considered when **ALL OF THE BELOW CRITERIA ARE MET**
 - Presence of severe disease (preferably within 24 to 48 hours of onset of severe disease/ICU admission).
 - Significantly raised inflammatory markers (CRP &/or IL-6).
 - Not improving despite use of steroids.
 - No active bacterial/fungal/tubercular infection.
 - ❖ Recommended single dose: 4 to 6 mg/kg (400 mg in 60kg adult) in 100 ml NS over 1 hour.
- **Convalescent plasma (Off label)** may be considered **ONLY WHEN FOLLOWING CRITERIA ARE MET**
 - Early moderate disease (**preferably within 7 days of symptom onset, no use after 7 days**).
 - Availability of high titre donor plasma (Signal to cut-off ratio (S/O) ≥ 3.5 or equivalent depending on the test kit being used).

*High-risk for severe disease or mortality

- ✓ Age > 60 years
- ✓ Cardiovascular disease, hypertension, and CAD
- ✓ DM (Diabetes mellitus) and other immunocompromised states
- ✓ Chronic lung/kidney/liver disease
- ✓ Cerebrovascular disease
- ✓ Obesity

Guidelines for COVID-19 vaccination of children between 15-18 years and precaution dose to HCWs, FLWs & 60+ population with comorbidities

India's National COVID Vaccination Program is built on scientific and epidemiological evidence, WHO guidelines and global best practices. Anchored in systematic end-to-end planning, it is implemented through effective and efficient participation of States/UTs and the people at large.

Government of India's commitment to the vaccination program has been unwavering and proactive from the beginning, from strengthening Research and Development capacity, to encouraging and enabling manufacturing and vaccinating each and every adult Indian safely, as fast as possible.

As a consequence of reliance on scientific & epidemiological evidence and pro-active implementation, India's COVID-19 vaccination programme has achieved historical milestone of administering more than 141 crore doses so far. 90% of the adult population of the country has been covered with at least one dose and 62% of the adult population has been covered with both the doses.

For the COVID vaccination program, Government of India initiated early and proactive steps as far back as April 2020:

- "Task Force for Focused Research on Corona Vaccine" (constituted in April 2020), to encourage domestic R&D of Drugs, Diagnostics and Vaccines, headed by Principal Scientific Advisor to the Government of India.
- "National Expert Group on Vaccine Administration for COVID-19" (NEGVAC), (constituted in August 2020), to formulate a comprehensive action plan for vaccine administration, co-chaired by Member (Health) NITI Aayog and Union Health Secretary.
- "Empowered Group on Vaccine Administration for COVID-19" (constituted in January 2021), to facilitate optimal utilization of technology to make COVID vaccination all inclusive, transparent, simple and scalable, headed by CEO, National Health Authority.

India's COVID vaccination program incorporates recommendations of the foremost experts in the field of immunization, public health, disease control and information technology. Based on scientific and epidemiological evidence, the programme gives priority to strengthening the country's healthcare system by protecting the professionals, health and frontline workers, manning it, as well as protecting the most vulnerable population groups.

COVID vaccination in the country commenced with vaccination to all Health Care Workers. The program was expanded with time to include vaccination of Front Line Workers, citizens more than 60 years of age, citizens more than 45 years of age, and eventually citizens more than 18 years of age.

Under the National COVID Vaccination Program, from 16th January to 30th April 2021, 100% of vaccine doses were procured by Government of India and provided free of cost to State Governments. State Governments were in turn to administer vaccination free of cost to defined priority groups. To increase the pace of vaccination, participation of private hospitals was also enlisted where individuals could also choose to get vaccinated at a prescribed rate.

In response to the suggestions of many State Governments to be permitted the flexibility to procure vaccine directly and administer them as per their own prioritization based on local requirements, Government of India revised the Guidelines. Under the revised Guidelines effective from 1st May, 2021, Government of India was procuring 50% of the vaccine produced and was continuing to provide them to States free of cost for administering to priority groups. The State Government and private hospitals were also empowered to directly procure from the remaining 50% vaccine pool.

Many States subsequently communicated that they were facing difficulties in managing the funding, procurement and logistics of vaccines, impacting the pace of the National COVID Vaccination Program. It was also noted that smaller and remoter private hospitals also faced constraints.

Keeping in view the aforesaid aspects, the experiences gained from 1st May 2021 and the repeated requests received from States, the Guidelines for National COVID Vaccination Program were reviewed and revised. These Revised Guidelines became effective from 21st June 2021.

Under the Revised Guidelines, Government of India procured 75% of the vaccines being produced by the manufacturers in the country and provided it free of cost to States/UTs as has been the case from the commencement of the National Vaccination Programme. These doses were administered by the States/UTs free of cost to all citizens as per priority through Government Vaccination Centres.

Vaccine doses provided free of cost by Government of India have been allocated to States/UTs based on criteria such as population, disease burden and the progress of vaccination. Wastage of vaccine has affected the allocation negatively.

Government of India has also provided States/UTs advance information of vaccine doses to be supplied to them. States/UTs were expected similarly, to further allocate doses well in advance to districts and vaccination centers. They were also expected to put in the public domain the information about the above availability at district and vaccination center level, and widely disseminate it among the local population, maximizing the visibility and convenience of citizens.

In order to incentivize production by vaccine manufacturers and encourage new vaccines, domestic vaccine manufacturers were given the option to also provide vaccines directly to private hospitals. This was restricted to 25% of their monthly production. Later on, it emerged that the off take of private hospitals was much below the aforesaid 25%. Therefore, the Govt. of India procured more than 75% of vaccines being produced by the manufacturers in the country. These vaccines were provided free of cost to the States/UTs.

All citizens irrespective of their income status have all along been entitled to free vaccination. Those who have the ability to pay are encouraged to use private hospital's vaccination centres.

The CoWIN platform provides every citizen the facility of conveniently and safely pre-booking vaccination appointments. All government and private vaccination centers also provide onsite registration facility, available both for individuals as well as groups of individuals, for which detailed procedure have been finalized and published by States/UTs, in order to minimize any inconvenience to citizens.

Keeping in view the recent global surge of COVID-19 cases, detection of Omicron variant which has been categorized as a Variant of Concern (VOC), scientific evidence, global practices and the inputs/suggestions of 'COVID-19 Working Group of National Technical Advisory Group on Immunization (NTAGI)' as well as of 'Standing Technical Scientific Committee (STSC)' of NTAGI it has now been decided to further refine the scientific prioritization & coverage of COVID-19 vaccination as follows:

1. COVID-19 Vaccination of children in the age-group of 15-18 years to be started from 3rd January 2022. For such beneficiaries, vaccination option would be "Covaxin" only.
2. As a matter of abundant precaution, for those Health Care Workers (HCWs) & Front Line Workers (FLWs) who have received two doses, another dose of COVID-19 vaccine would be provided from 10th January 2022. The prioritization and sequencing of this precaution dose would be based on the completion of 9 months i.e. 39 weeks from the date of administration of 2nd dose.
3. All persons aged 60 years and above with comorbidities who have received two doses of COVID-19 vaccine, will on Doctor's advice be provided with a

precaution dose from 10th January 2022. The prioritization and sequencing of this precaution dose would be based on the completion of 9 months i.e. 39 weeks from the date of administration of second dose.

All citizens irrespective of their income status are entitled to free COVID-19 vaccination at Govt. Vaccination Centres. Those who have the ability to pay are encouraged to use Private Hospitals' Vaccination Centres.

Co-WIN features and provisions:

1. HCWs, FLWs and Citizens 60+ with co-morbidities:
 - a. All HCWs, FLWs and citizens aged 60 years or above with comorbidities will be able to access the vaccination for precaution dose through their existing Co-WIN account.
 - b. Eligibility of such beneficiaries for the precaution dose will be based on the date of administration of 2nd dose as recorded in the Co-WIN system.
 - c. Co-WIN system will send SMS to such beneficiaries for availing the precaution dose when the dose becomes due.
 - d. Registration and appointment services can be accessed through both, the online and the onsite modes.
 - e. The details of administration of the precaution dose will be suitably reflected in the vaccination certificates.
2. New beneficiaries aged 15-18 years:
 - a. All those aged 15 years or more will be able to register on Co-WIN. In other words, all those whose birth year is 2007 or before, shall be eligible.
 - b. Beneficiaries can self-register, online through an existing account on Co-WIN or can also register by creating a new account through a unique mobile number, this facility is available for all eligible citizens presently.
 - c. Such beneficiaries can also be registered onsite by the verifier/vaccinator in facilitated registration mode.
 - d. Appointments can be booked online or onsite (walk-in).
 - e. For such beneficiaries, option for vaccination would only be available for Covaxin as this is the only vaccine with EUL for the age-group 15-18.

These Guidelines will come into effect from 3rd January 2022 & will be reviewed from time to time.

**Government of India
Ministry of Health & Family Welfare**

Revised guidelines for Home Isolation of mild /asymptomatic COVID-19 cases

1. Background

Over the past two years, it has been seen globally as well as in India that majority of cases of COVID-19 are either asymptomatic or have very mild symptoms. Such cases usually recover with minimal interventions and accordingly may be managed at home under proper medical guidance and monitoring.

Ministry of Health & FW has thus issued and updated guidelines for home isolation from time to time to clarify selection criteria, precautions that need to be followed by such patients and their families, signs that require monitoring and prompt reporting to health facilities.

The present guidelines are applicable to COVID-19 patients who have been clinically assessed and assigned as **mild /asymptomatic cases of COVID-19**.

2. Asymptomatic cases; mild cases of COVID-19

The asymptomatic cases are laboratory confirmed cases who are not experiencing any symptoms and have oxygen saturation at room air of more than 93%.

Clinically assigned mild cases are patients with upper respiratory tract symptoms with or without fever, without shortness of breath and having oxygen saturation at room air of more than 93%.

3. Patients eligible for home isolation

- i. The patient should be clinically assigned as mild/ asymptomatic case by the treating Medical Officer. Further a designated control room contact number at the district /sub district level shall be provided to the family to get suitable guidance for undertaking testing, clinical management related guidance, assignment of a hospital bed, if warranted.
- ii. Such cases should have the requisite facility at their residence for **self-isolation** and for **quarantining the family contacts**.
- iii. A caregiver (**ideally someone who has completed his COVID-19 vaccination schedule**) should be available to provide care on 24 x7 basis. **A communication link between the**

caregiver and a Medical Officer is a prerequisite for the entire duration of home isolation.

- iv. Elderly patients aged more than 60 years and those with co-morbid conditions such as Hypertension, Diabetes, Heart disease, Chronic lung/liver/ kidney disease, Cerebro-vascular disease etc **shall only be allowed home isolation after proper evaluation by the treating medical officer.**
- v. Patients suffering from immune compromised status (HIV, Transplant recipients, Cancer therapy etc.) **are not recommended** for home isolation and **shall only be allowed home isolation after proper evaluation by the treating Medical Officer.**
- vi. While a patient is allowed home isolation, all other members in the family including other contacts shall follow the **home quarantine guidelines available at:** <https://www.mohfw.gov.in/pdf/Guidelinesforhomequarantine.pdf>.

4. Instructions for the patient

- i. Patient must isolate himself from other household members, stay in the identified room and away from other people in home, especially elderly and those with co-morbid conditions like hypertension, cardiovascular disease, renal disease etc.
- ii. The patient should stay in a well-ventilated room with cross ventilation and windows should be kept open to allow fresh air to come in.
- iii. Patient should at all times use triple layer medical mask. They should discard mask after 8 hours of use or earlier if the mask becomes wet or is visibly soiled. In the event of Caregiver entering the room, both Caregiver and patient may preferably consider using N-95 mask.
- iv. Mask should be discarded after cutting them to pieces and putting in a paper bag for a minimum of 72 hours.
- v. Patient must take rest and drink lot of fluids to maintain adequate hydration.
- vi. Follow respiratory etiquettes at all times.
- vii. Undertake frequent hand washing with soap and water for at least 40 seconds or clean with alcohol-based sanitizer.
- viii. The patients shall not share personal items including utensils with other people in the household.
- ix. Need to ensure cleaning of frequently touched surfaces in the room (tabletops, doorknobs, handles, etc.) with soap/detergent & water. The cleaning can be undertaken either by the patient or the caregiver duly following required precautions such as use of masks and gloves.
- x. Self-monitoring of blood oxygen saturation with a pulse oximeter for the patient is advised.
- xi. The patient shall self-monitor his/her health with daily temperature monitoring (as given below) and report promptly if any deterioration of symptom is noticed. The status shall be shared with the treating Medical Officer as well as surveillance teams/Control room.

Patients Self -health monitoring Chart

Date and time	Temperature	Heart rate (from pulse oximeter)	SpO2 % (from pulse oximeter) *	Feeling: (better /same /worse)	Breathing: (better / same/ worse) **

*For self-monitoring blood oxygen saturation with a pulse oximeter, place the index finger (after cleaning hands and removing nail polish, if any) in the pulse oximeter probe and take the highest steady reading after a few seconds.

**The patient may self-monitor breathing rate/respiratory rate in sitting position, breathe normally and count the number of breaths taken in 1 full minute.

5. Instructions for Care Giver

i. Mask:

- The caregiver should wear a triple layer medical mask. N95 mask may be considered when in the same room with the ill person.
- Front portion of the mask should not be touched or handled during use.
- If the mask gets wet or dirty with secretions, it must be changed immediately.
- Mask should be discarded after cutting them to pieces and putting in a paper bag for a minimum of 72 hours.
- Perform hand hygiene after disposal of the mask.
- He/she should avoid touching own face, nose or mouth.

ii. Hand hygiene

- Hand hygiene must be ensured following contact with ill person or his immediate environment.
- Use soap and water for hand washing at least for 40 seconds. Alcohol-based hand rub can be used, if hands are not visibly soiled.
- After using soap and water, use of disposable paper towels to dry hands is desirable. If not available, use dedicated clean cloth towels and replace them when they become wet.
- Perform hand hygiene before and after removing gloves.

iii. Exposure to patient/patient's environment

- Avoid direct contact with body fluids (respiratory, oral secretions including saliva) of the patient. Use disposable gloves while handling the patient.

- Avoid exposure to potentially contaminated items in his immediate environment (e.g. avoid sharing eating utensils, dishes, drinks, used towels or bed linen).
- Food must be provided to the patient in his room. Utensils and dishes used by the patient should be cleaned with soap/detergent and water while wearing gloves. The utensils may be re-used after proper cleaning.
- Clean hands after taking off gloves or handling used items. Use triple layer medical mask and disposable gloves while cleaning or handling surfaces, clothing or linen used by the patient.
- Perform hand hygiene before and after removing gloves.

iv. Biomedical Waste disposal

Effective and safe disposal of general wastes such as disposable items, used food packets, fruit peel offs, used water bottles, left-over food, disposable food plates etc. should be ensured. They should be collected in bags securely tied for handing over to waste collectors.

Further, the used masks, gloves and tissues or swabs contaminated with blood / body fluids of COVID-19 patients, including used syringes, medicines, etc., should be treated as biomedical waste and disposed of accordingly by collecting the same in a yellow bag and handed over to waste collector separately so as to prevent further spread of infection within household and the community. Else they can be disposed of by putting them in appropriate deep burial pits which are deep enough to prevent access to rodents or dogs etc.

6. Treatment for patients with mild /asymptomatic disease in home isolation

- i. Patients must be in communication with a treating Medical Officer and promptly report in case of any deterioration.
- ii. The patient must continue the medications for other co-morbidities/ illness after consulting the treating Medical Officer.
- iii. Patient may utilize the tele-consultation platform made available by the district/state administration including the e-Sanjeevani tele-consultation platform available at <https://esanjeevaniopd.in/>
- iv. Patients to follow symptomatic management for fever, running nose and cough, as warranted.
- v. Patients may perform warm water gargles or take steam inhalation thrice a day.
- vi. If fever is not controlled with a maximum dose of Tab. Paracetamol 650 mg four times a day, consult the treating doctor.

- vii. Information floating through social media mentioning non-authentic and non-evidence-based treatment protocols can harm patients. Misinformation leading to creation of panic and in-turn undertaking tests and treatment which are not required has to be avoided. Clinical management protocol for asymptomatic/mild patients as available on the website of Ministry of Health & FW (https://www.icmr.gov.in/pdf/covid/techdoc/COVID_Management_Algorithm_23092021.pdf) may be referred to by the treating Medical Officer to aid management of the case.
- viii. Do not rush for self-medication, blood investigation or radiological imaging like chest X ray or chest CT scan without consultation of your treating Medical Officer.
- ix. Steroids are not indicated in mild disease and shall not be self-administered. Overuse & inappropriate use of steroids may lead to additional complications.
- x. Treatment for every patient needs to be monitored individually as per the specific condition of the patient concerned and hence generic sharing of prescriptions shall be avoided.
- xi. In case of falling oxygen saturation or shortness of breath, the person may require hospital admission and shall seek immediate consultation of their treating Medical Officer/surveillance team /Control room.

7. When to seek medical attention

Patient / Care giver will keep monitoring their health. Immediate medical attention must be sought if serious signs or symptoms develop. These could include-

- i. Unresolved High-grade fever (more than 100° F for more than 3 days)
- ii. Difficulty in breathing,
- iii. Dip in oxygen saturation ($SpO_2 \leq 93\%$ on room air at least 3 readings within 1 hour) or respiratory rate $>24/\text{min}$
- iv. Persistent pain/pressure in the chest,
- v. Mental confusion or inability to arouse,
- vi. Severe fatigue and myalgia

8. Monitoring of the Patient during Home Isolation

The concerned district administration under the overall supervision of State Health Authority shall be responsible for monitoring the patient under home isolation.

8.1. Responsibilities of grass root level Surveillance Teams

- i. The Surveillance Teams (ANM, Sanitary inspector, MPHW etc) shall be responsible for initial assessment of the patient and whether the requisite facilities are there for home isolation.
- ii. The health worker should contact the patient daily preferably in-person or over telephone/ mobile and obtain the details of temperature, pulse, oxygen saturation, patients overall wellness and worsening of signs/ symptoms.
- iii. The Surveillance Team may provide Home Isolation Kits to the patient/ caregiver as per the policy of the State Government. The Kit may contain masks, hand sanitizers, paracetamol along with a detailed leaflet to educate patients and family members in local language.
- iv. If there is reported worsening of signs/ symptoms and/or fall in oxygen saturation, the Surveillance team shall re-assess the patient and inform the Control Room for shifting the patient to hospital.
- v. The surveillance Team shall also undertake the patient education on the disease, its symptoms, warning signs, COVID appropriate behaviour and need for vaccination for all eligible members.

8.2. Responsibilities of the District/ Sub-District Control Room.

District and sub-district control rooms will be made operational and their telephone numbers should be well publicised in public so that people under home-isolation may contact the control rooms for seamless transfer of patients through ambulance from home to the dedicated hospital.

These Control Rooms shall also make outbound calls to the patients under home isolation to monitor their status.

8.4. Role of District Administration

The district administration should monitor all cases under home isolation on a daily basis.

9. When to discontinue home isolation

Patient under home isolation will stand discharged and end isolation after at least 7 days have passed from testing positive and no fever for 3 successive days and they shall continue wearing masks. **There is no need for re-testing after the home isolation period is over.**

Asymptomatic contacts of infected individuals need not undergo Covid test & monitor health in home quarantine.

Guidelines for Home Isolation (Dated 5th January 2022)

Patient Tested Positive

Patients clinically assessed and assigned as mild /asymptomatic cases of COVID-19 or patients experiencing no symptoms and have oxygen saturation at room air of 93% or more.

Management of cases under Home Isolation

Instructions for the patient	<ul style="list-style-type: none"> Identify separate, well-ventilated room; Use triple layer mask and discard in a paper bag after 72 hours, cutting into pieces; Maintain adequate hydration; Follow respiratory etiquettes; Follow hand hygiene; 	<ul style="list-style-type: none"> Do not share personal items including utensils with others; Clean frequently touched surfaces with soap/detergent and water; Monitor blood oxygen saturation and temperature regularly; Report promptly in case of any deterioration
Instructions for caregivers (caregiver must be fully vaccinated)	<ul style="list-style-type: none"> Use triple layer mask and discard in a paper bag after 72 hours, cutting into pieces; Replace mask immediately if wet of dirty with secretion; Follow hand hygiene; Avoid touching face, nose or mouth; 	<ul style="list-style-type: none"> Use gloves and perform hand hygiene before and after using gloves; Avoid direct contact with body fluids of patient; Avoid exposure to contaminated items in patient's immediate environment; Ensure effective waste disposal;
Treatment for patients with mild /asymptomatic disease	<ul style="list-style-type: none"> Patient must be in communication with a Medical Officer; Medication for co-morbidities must be continued after consulting treating Medical Officer; Leverage Tele-consultation platform; Follow symptomatic management for fever, cough, etc.; Avoid misinformation leading to panic; 	<ul style="list-style-type: none"> Do not rush for self-medication, blood investigation or radiological imaging without consultation of your treating Medical Officer. Steroids are not indicated in mild disease and shall not be self-administered; Only Medical Officer must decide about drugs, hoarding any drugs is not useful
Monitoring of the Patient during Home Isolation by District administration	<ul style="list-style-type: none"> The concerned district administration under the overall supervision of State Health Authority responsible for monitoring the patient under home isolation Initial assessment to be conducted by surveillance teams at ground level; Adequately staffed and well-equipped control rooms to aid end-to-end support to the patient under home isolation; 	<ul style="list-style-type: none"> Contact numbers of Control Room should be well publicized for seamless transfer of patients through ambulance from home to the dedicated hospital Necessary coordination with respect to infrastructure to be ensured by the district administration;

Patient / Caregiver to monitor health of patient. Immediate medical attention must be sought if serious signs or symptoms develop. These could include-

Unresolved high grade Fever;
>100° F for more than 3 days

Difficulty in
breathing

SpO2 < 93% on room air at least 3 reading
within 1 hour or Respiratory rate >24/ min

Persistent pain/ pressure
in the chest

Mental confusion or
inability to arouse

Severe fatigue
and myalgia

Discontinue Home Isolation: Patient under home isolation will stand discharged and end isolation after at least 7 days have passed from testing positive and no fever for 3 successive days and they shall continue wearing masks. There is no need for re-testing after the home isolation period is over. Asymptomatic contacts of infected individuals need not undergo Covid test & monitor health in home quarantine.