



**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**

17<sup>th</sup> May 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 SpO<sub>2</sub> 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  $\geq$  24/min, breathlessness  
2. SpO<sub>2</sub>: 90% to  $\leq$  93% on room air

**ADMIT IN WARD**

Oxygen Support:

- Target SpO<sub>2</sub>: 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 hrlly; CBC, KFT, LFT 24 to 48 hrlly; IL-6 levels to be done if deteriorating (subject to availability).

**Severe disease**

Any one of:  
1. Respiratory rate >30/min, breathlessness  
2. SpO<sub>2</sub> < 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/m<sup>2</sup>; 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