

AIIMS, New Delhi

CLINICAL GUIDANCE FOR MANAGEMENT OF COVID-19 (Version 2.1)

3rd May 2021

Mild disease

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

Home Isolation

- Contact & droplet precautions, strict hand
- Symptomatic management (hydration, antipyretics, anti-tussive)
- Stay in contact with treating physician
- Seek immediate medical attention if:
- Difficulty in breathing/ RR ≥ 24 /min/ SpO2 <
- High grade fever/severe cough particularly beyond 5 days of symptoms onset
- A low threshold to be kent for those with any of the high-risk features*
- Tab Ivermectin (200 mcg/kg once a day for 3 to 5 days) to be considered (Avoid in pregnant/ lactating)
- If fever is not controlled with a maximum dose of Tab. Paracetamol 650 mg QID, may consider use of NSAID like Tab. Naproxen 250
- Inhalational Budesonide (given via DPI/MDI with Spacer at a dose of 800 mcg BD for 5 to 7 days) to be given if symptoms (fever and/or cough) are persistent beyond 5 days of disease onset
- Systemic Steroids NOT indicated in mild disease; HOWEVER, may be considered in cases with high grade fever and worsening cough beyond 7 days ONLY in consultation with the treating physician for a duration of

Tab Dexamethasone 0.1-0.2 mg/kg OD

Tab Methylprednisolone 0.5-1 mg/kg in 2 divided doses

*High-risk for severe disease or mortality

Cardiovascular disease including

Age > 60 years

hypertension and CAD

Cerebrovascular disease

Diabetes mellitus and other

immunocompromised states

Chronic lung/kidney/liver disease

Moderate disease

COVID-19 patient

Any one of:

- 1. Respiratory rate > 24 /min
- 2. SpO2 < 93% on room air

Severe disease

Any one of:

- 1. Respiratory rate > 30 /min
- 2. SpO2 < 90% on room air

Admit in ICU

Admit in Ward

- Target SpO₂: 92-96% (88-92% in patients with COPD)
- Preferred devices for oxygenation: non-rebreathing face mask
- Awake proning should be encouraged in all patients who are requiring supplemental oxygen therapy (sequential position changes every 1-2 hours)

Anti-inflammatory or immunomodulatory therapy

- Inj. Methylprednisolone 0.5 to 1 mg/kg in 2 divided doses (or an equivalent dose of dexamethasone - 0.1 to 0.2 mg/kg per day) 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 UFH or LMWH (weight based e.g., enoxaparin 0.5mg/kg per day SC OD)

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 every 48 to 72 hrly; CBC KFT, LFT every 24 to 48 hrly; IL-6 levels to be done if deteriorating (Subject to availability)

Respiratory support

- Consider use of NIV (Helmet or face mask interface depending on availability)/HFNC in patients with increasing oxygen requirement, if work of breathing is LOW
- 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 - 0.2 to 0.4 mg/kg per day) usually for a duration 5 to 10 days

Weight based intermediate dose prophylactic UFH or LMWH (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 deteriorating
- 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

Moderate to severe disease (i.e., requiring SUPPLEMENTAL OXYGEN), AND

Remdesivir (EUA) may be considered ONLY in patients with

- Who are within 10 days of symptom onset, with
- No renal or hepatic dysfunction (eGFR <30 ml/min/m2; AST/ALT >5 times ULN (Not an absolute contradiction), AND

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

- Recommended dose is 200 mg IV on day 1 f/b 100 mg IV OD for next 4 days
- mab (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
 - The recommended dose is 4 to 6 mg/kg (usually a dose of 400 mg in a typical 60kg adult) in 100 ml NS over 1 hour (single dose)
 - valescent plasma (Off label) may be considered when following criteria are met
 - Early moderate disease (Preferably within 7 days of symptom onset) Availability of high titre donor plasma (Signal to cutoff ratio ≥3.5 or equivalent depending on the kit being used)
 - Usual dose is 200 ml given over a period of 2 or more hours

Obesity