



COVID-19 Management Protocol

SGPGIMS, Lucknow

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COVID Positive Patient

Categorize based on Severity of Illness

Asymptomatic OR very mild disease Fever, Mild URTI, No dyspnoea

- Home Isolation
- Contact and Droplet precautions
- Strict hand hygiene
- Tab Ivermectin 200mcg/kg OD x 3day s plus Tab Azithromycin 500mg OD and Tab Doxycycline 100 mg BD x 7 days
- Tab Zinc 50 mg BD
- Tab Vit C 500mg BD
- Symptomatic treatment for cough and fever (bronchodilators, mucolytic, paracetamol)
- Monitor closely for warning signs: Chest pain, dyspnoea, tachypnoea, cyanosis, altered mentation

Persistent fever, and cough, constitutional symptoms, uncontrolled comorbid conditions /risk factors for severe disease

- Admit in Isolation Ward
- Contact and Droplet precautions
- Strict hand hygiene
- Tab Ivermectin 200mcg/kg OD x 3day s plus Tab Azithromycin 500mg OD and Tab Doxycycline 100 mg BD x 7 days
- Prophylactic dose of UFH² or LMWH² (e.g., enoxaparin 40 mg per day SC)
- Tab Zinc 50 mg BD
- Tab Vit C 500mg BD
- Symptomatic treatment for cough and fever (bronchodilators, mucolytic, paracetamol)
- Obtain baseline CBC, LFT/RFT, CRP, D-dimer & Ferritin, Fibrinogen, Procalcitonin
- Obtain HRCT Thorax
- Monitor closely for warning signs
 - Chest pain, dyspnoea, tachypnoea, cyanosis, altered mentation

Moderate

Pneumonia with no signs of severe disease
RR ≥ 24/ min, SPO2 ≤ 94 % on Room Air

- Admit in ICU/HDU, oxygen support through nasal cannulae or high flow delivery systems if needed
- Target SpO2: 92-96% (88-92% in COPD).
- Awake proning should be given to all who tolerate it.
- All patients should have daily 12-lead ECG
- Follow CRP, D-dimer & Ferritin, Fibrinogen, Procalcitonin every 48-72 hourly; CBC, KFT/LFT daily
- Inj. Remdesivir 200 mg IV on Day 1 followed by 100mg OD for 4 days.
- Convalescent plasma in early moderate disease
- Consider IV methylprednisolone 0.5 - 1 mg/kg or dexamethasone 0.1- 0.2 mg/kg for 7 - 10 days (within 48 hours of admission or if oxygen requirement is increasing and if inflammatory markers are increased)
- Prophylactic dose of UFH² or LMWH² (e.g., enoxaparin 40 mg per day SC)
- Inj. Thiamine 100 mg IV OD, Inj. Vit C 1.5gm IV 6 hrly
- Antibiotics if suspecting infection according to local policy and control of co-morbid condition.
- Monitor for: Increased WOB, Hemodynamic instability, Increase in oxygen requirement

Severe

Respiratory distress requiring assisted ventilation
RR ≥ 30/min, SPO2 ≤ 90% on Room Air

- Cautious trial of CPAP/NIV, HFNC to prevent intubation
- Inj. Remdesivir 200 mg IV on Day 1 followed by 100mg OD for 4 days
- IV methylprednisolone 1.0 to 2 mg/kg or dexamethasone 0.1- 0.2 mg/kg for 7 - 10 days if not already given (To be tapered over 2 - 4 weeks depending on radiological involvement and clinical recovery)
- Therapeutic dose of UFH or LMWH (after excluding coagulopathy or thrombocytopenia or high risk of bleeding²)
- Inj. Thiamine 100 mg IV OD, Inj. Vit C 1.5gm IV 6 hourly
- Monitor inflammatory markers daily
- ** Inj. Tocilizumab or Methylprednisolone pulse for Mx of Cytokine storm and ARDS (Off Label, Individualise)
- Mechanical ventilation if unable to maintain saturation, increased work of breathing or development of hemodynamic instability
 - Conventional ARDS Net strategy
 - Proning, recruitment manoeuvres
- Management of septic shock as per SSC guidelines and local antibiotic policy
- Convalescent Plasma as rescue therapy or on compassionate grounds.

Ferritin > 500 mg/dl
CRP > 50 mg/dl
D-dimers > 2 times ULN
Fibrinogen > 500 mg/dl

OR CT SEVERITY SCORE⁴ > 20

- Inj. Remdesivir 200 mg IV on Day 1 followed by 100mg OD for 4 days
- Prophylactic dose of UFH² or LMWH² (e.g., enoxaparin 40 mg per day SC)

Testing

While attending suspect case as per above protocol based on clinical assessment, testing shall be resorted to and if negative—manage in Non-Covid facility according to clinical diagnosis

Discharge

After clinical improvement, discharge according to state discharge policy

1. High risk patients for Severe Disease

- Age > 60 years
- HTN, Diabetes Mellitus and other immunocompromising conditions.
- Chronic lung, kidney or liver disease
- Cerebrovascular disease
- Obesity BMI > 25 kg/m²

2. LMWH: Low Molecular Weight Heparin: if no contraindication or high risk of bleeding: UFH: Unfractionated Heparin

- 3. Risk of Bleeding: Use validated score for assessing bleeding risk (e.g. HAS-BLED Score), Use D-Dimer and SIC for further risk stratification (SIC score ≥ 24 portends high thrombotic risk)

4. Yang et al. CT Severity Score: An Imaging Tool for Assessing Severe COVID-19. Radiology: Cardiothoracic Imaging. Published Online: Mar 30 2020

** Informed consent mandatory before use of off label drugs.

Source: MoHFW/ICMR