Inclusion Criteria for Recipients:

1. Informed consent will be obtained.
2. Confirmed COVID-19 cases confirmed by RT-PCR laboratory tests
3. Moderate Severe or Severe COVID-19 related features

Moderate Severe or Severe COVID-19, defined by the presence of any of the following features:

i. Shortness of breath
ii. Respiratory rate ≥ 30/min,
iii. Arterial blood oxygen saturation ≤93%,
iv. Lung infiltrates > 50% within 24 to 48 hours developed from the onset of symptoms

Exclusion Criteria for Recipients:

Critical COVID-19, defined by the presence of any of the following features:

v. Respiratory failure,
vi. Shock
vii. Multiple organ dysfunction