



GOVERNMENT OF KARNATAKA

No: HFW 315 ACS 2020

Karnataka Government Secretariat
Vikasa Soudha
Bengaluru, Date: 21.08.2020

CIRCULAR

There is an unprecedented surge in the demand of Oxygen to treat COVID-19 patients. The Clinical Expert Committee has conducted an analysis of the usage of Oxygen, which reveals that there is a non judicious and excessive use of Oxygen Therapy without proper monitoring. Excessive usage besides having deleterious health effects is resulting in the wastage of precious resource leading to a shortage of the commodity and waste of money.

The Clinical Expert Committee has considered it necessary to issue guidelines for a judicious use of Oxygen as a Therapy to treat COVID-19 patients. The Oxygen Therapy protocol finalized by the Clinical Expert Committee is attached herewith. All the Health Institutions and Doctors are advised to strictly adhere to the recommended protocol.


(Jawaid Akhtar)

Additional Chief Secretary to Govt.
Health and Family Welfare Department

To:

- 1) Commissioner, BBMP
- 2) All Deputy Commissioners
- 3) All Chief Executive Officer of Zilla Panchayat
- 4) Commissioner, HFWS
- 5) Mission Director, NHM
- 6) Executive Director, SAST
- 7) Director, HFWS
- 8) Director, Medical Education.
- 9) All DHOs
- 10) All District Surgeons / District Surveillance Officer

Copy to:

- 1) Chief Secretary to Govt., of Karnataka
- 2) PS to Hon. Minister for HFW
- 3) PS to Hon. Minister for Medical Education.

(ANNEXURE-01)

OXYGEN THERAPY IN COVID19 PATIENTS AND ITS JUDICIOUS
USAGE in COVID19 PANDEMIC

In view of the present COVID19 pandemic, there is sudden unprecedented demand for Oxygen as a therapy to treat COVID19 patients. But it has also lead to unwanted, excess, injudicious & over usage of Oxygen Therapy without monitoring. Hence, following guidelines should be considered for Oxygen Therapy of COVID19 patients to reduce the unwanted, injudicious usage and save the precious Oxygen for real needy COVID19 patients across the state.

A. TARGET SATURATION (with lowest Fio2 possible) in COVID19 patients

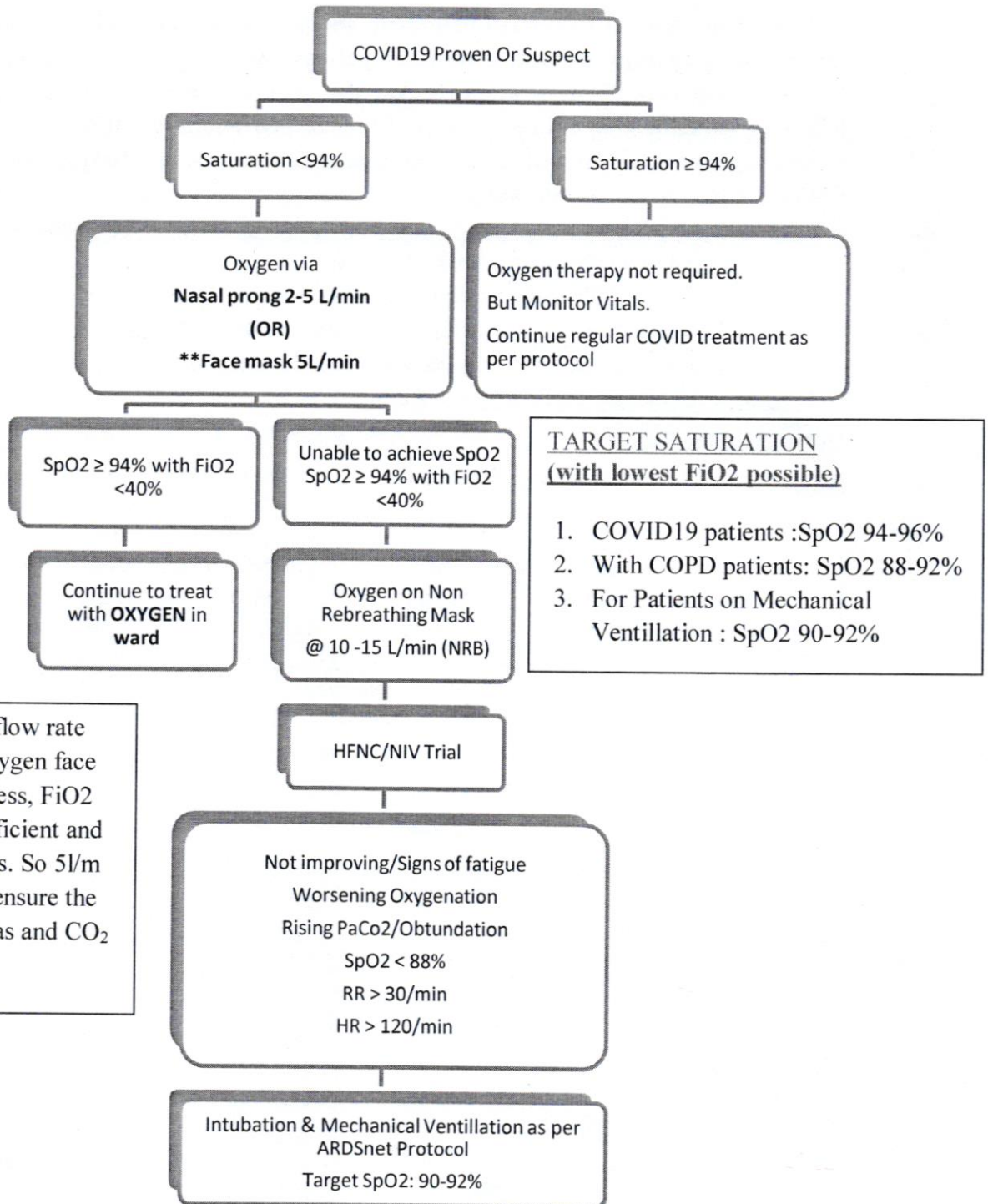
1. COVID19 patients :SpO2 94-96%
 2. With COPD patients: SpO2 88-92%
 3. For Patients on Mechanical Ventillation : SpO2 90-92%
- Target SpO2 cut off is 94-96%, not to aim for SpO2- 100%

B. Oxygen Delivery Devices And Fio2 Range

100% O2 Flow Rate	FiO2 (%)
Nasal cannula	
1	24
2	28
3	32
4	36
5	40
6	44
Oxygen Mask	
5-6	40
6-7	50
7-8	60
Mask with Reservoir Bag	
6	60
7	70
8	80
9	90
10	>99
Nonrebreathing Mask 4-10	60-100
Venturi Mask	
3	24
6	28
9	35
12	40
15	50

(Signature)

C. ALGORITHM of OXYGEN THERAPY for COVID19 at TRIAGE



**TARGET SATURATION
(with lowest FiO2 possible)**

1. COVID19 patients :SpO2 94-96%
2. With COPD patients: SpO2 88-92%
3. For Patients on Mechanical Ventillation : SpO2 90-92%

**Minimum oxygen flow rate required for using Oxygen face mask is 5 l/m. If it's less, FiO2 delivery will be insufficient and CO2 retention happens. So 5l/m and above is must to ensure the washout of exhaled gas and CO2 retention.

(Signature)