

UTMB RESPIRATORY CARE SERVICES PROCEDURE – <b>High Flow</b> <b>High Flow Nasal Cannula Protocol</b>	Policy 07.04.18. Page 1 of 3
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## Adult High Flow Nasal Cannula Protocol

**Purpose:** To provide guidance for safe and effective adjustments of adult high flow nasal cannula.

### Exclusions:

Pediatric and Neonatal Patients

### Special Considerations:

**Chronic Obstructive Pulmonary Disease (COPD):** can have increased ventilation perfusion mismatch when high concentrations of oxygen are given. In these patients an SPO<sub>2</sub> of greater than 94% should be avoided. Please notify the provider if patient has a diagnosis of COPD and hypercarbia.

### Procedure:

- Follow the algorithm on page 3
- FIO<sub>2</sub> changes are made in increments of 5-10%. Allow at least 5 minutes between adjustments.
- Assess Pulse Oximetry, Respiratory Rate and Work of Breathing after every FIO<sub>2</sub> adjustment
- Adjust flow in 1-5LPM increments. Allow at least 5 minutes between adjustments.
- Assess Pulse Oximetry, Respiratory Rate and Work of Breathing after every Flow adjustment
- Following wean if SPO<sub>2</sub> falls below target, Respiratory Rate increases  $\geq 25$  or work of breathing increases, return to previous settings.
- For desaturations increase FIO<sub>2</sub> to 60% and flow to max settings. Once RR, SPO<sub>2</sub> and WOB improve begin wean according to guidelines.

### Provider Notification:

Notify provider for FIO<sub>2</sub>  $\geq 60\%$  or a sustained increase in FIO<sub>2</sub>  $\geq 20\%$ .

Notify provider for a sustained increase in flow  $\geq 10$  LPM.

Notify provider when maximal settings are achieved without meeting SPO<sub>2</sub> goal.

Notify provider for Increasing oxygen or flow requirements over the course of the shift.

Document provider notification in the medical record.

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**References:**

1. Doshi P et al. High-Velocity Nasal Insufflation in the Treatment of Respiratory Failure: A Randomized Clinical Trial. Ann Emerg Med 2018; 72: 73-83.e5.
2. Vapotherm Clinical Algorithm - MKT0542A

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