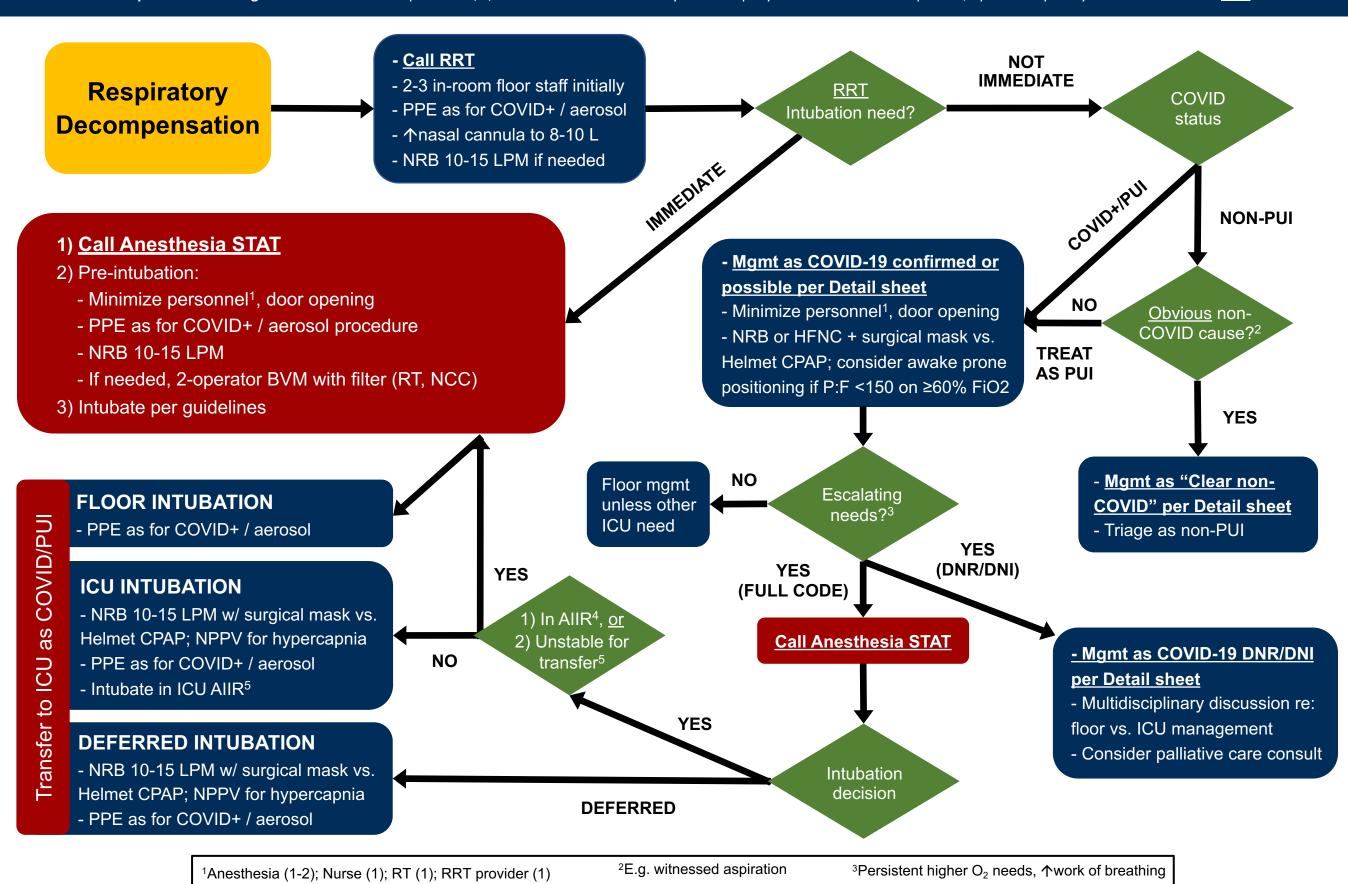
# Penn Medicine COVID-19 Clinical Guide: Respiratory Clinical Emergencies

See accompanying Detailed Respiratory Therapy Escalation sheet

See complete SharePoint guideline for details – Updated 11/5/20 – Recommendations may evolve rapidly – Do not save file – If printed, update frequently – See latest version here



<sup>4</sup>Airborne Infection Isolation Room, i.e. negative pressure room

<sup>5</sup>Plan for ↑ transport time for PUIs

# Penn Medicine COVID-19 Clinical Guide: Detail Respiratory Therapy Escalation

See accompanying Decision Pathway for Respiratory Clinical Emergencies

See complete SharePoint guideline for details – Updated 11/5/20 – Recommendations may evolve rapidly – Do not save file – If printed, update frequently – See latest version here

COVID-19 STATUS			
Clear Non-COVID Etiology	COVID-19 Possible / PUI	COVID-19 Confirmed	
Upgrade to droplet + contact PPE	Upgrade to airborne + contact PPE		
<b>HYPOXEMIA</b> (↑WOB or SaO <sub>2</sub> <92% on 6L LPM)			
Routine Management (HFNC, NRB, etc.)	Consider Intubation if rapidly progressive respiratory failure		
	<b>Trial HFNC</b> Flow: 10-60 LPM – FiO <sub>2</sub> : up to 100%		Place surgical mask over nose/mouth & O2 delivery device
	-or- <b>Temporize with NRB</b> Flow: 10-15 LPM		
	-or- <b>Trial Helmet CPAP</b> Flow: 50 LPM – FiO <sub>2</sub> : up to 60% – PEEP: 5-10 HFNC as needed for breaks (e.g. during sleep, feeding)		
	Consider Awake Prone Positioning		
	Consider ICU transfer (see accompanying <u>Decision Pathway</u> )		
	If trial without intubation, REASSESS within 1 HR		
	HYPERCAPNIA		
Routine Management (NPPV, etc.)	Consider Intubation if rapidly progressive respiratory failure		
	<b>Trial NPPV</b> PS 5-10 – PEEP: 8-10 – FiO <sub>2</sub> : 60% (SaO2 goal 88-92%)		
	Consider ICU transfer (see accompanying Decision Pathway)		
	If trial without intubation, REASSESS within 1 HR		

## Stable Chronic Hypercapnia

Routine mgmt. for non-COVID-19 patients

For COVID-19 confirmed and PUI:

OSA only: Avoid NPPV for this indication

COPD, OHS, NMD: Contact NPPV team for approval

#### **NIV Team Phone Numbers**

HUP: 215-964-7480CCH: 610-731-9736PMC: 215-964-7480MCP: 732-672-6450PAH: 610-529-5171LGH: 412-491-7603

### **COVID-19 DNR/DNI**

#### Patients with **restorative** goals

Mgmt same as per table with the following modifications:

Opioid PO or IV PRN first line symptom mgmt

Engage multidisciplinary discussion to consider whether patient can be safely managed on floor despite high FiO2

Do NOT intubate

### Patients with **comfort measures only** goals

Supplemental O2 via NC up to 6 LPM Opioid PO or IV PRN first line symptom mgmt

## INTUBATION

All intubations, including ICU intubations should be called **overhead STAT** 

See accompanying **Decision Pathway** for intubation, triage, and ICU transfer processes

For most patients, use Lung Protective Ventilation for ARDS

SaO<sub>2</sub> < 92% or pH < 7.3 despite interventions