

## **Overarching GOALS**



- Provide AHS and Canadian resources
- Practical tips for you and your team
- Encourage Simulation and Practice
- Reinforce the Golden Rule

There is no emergency in a Pandemic

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## Not going to talk about



- PPE
- COVID pathophysiology, diagnosis, management
- Assumption: Patient with low sats, URTI symptoms and in Alberta (i.e. COVID19 highly probable).

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### **Oxygenation and Temporizing**



- Aim for 88-94%
- High FLOW NP 5-10L AND NRB 15L
  - Nothing humidified (increases aerosolization)
- Awake Repositioning
- \*\*\* CPAP / BiPap\*\*\*
- May allow temporization and avoiding intubation and transfer to a higher level of care

Lower O2 okay – esp "Happy Hypoxemic"

Q 2 hours, ask patient to switch between the following positions; bed adjustments will be required between positions:

1. Left Lateral Recumbent

10-15 Minutes after each position change, check to make sure that Oxygen Saturation has not decreased. If it has, try another position.

Positions Changes to Counter Hypoxemia

If patient has a significant drop in Oxygen saturation, follow these steps:

1. Ensure the source of the patient's Oxygen is still hooked up to the wall and is properly placed on the patient (this is a common cause of desaturation)

2. Ask patient to move to a different position as above

3. If after 10 minutes, the patient's saturations have not improved to prior levels, speak with LIP about escalation of oxygen modality vs. trial of additional positions

4. Lying Prone in bed (If patient is on CPAP, ask LIPs if they still want to prone)

#### **Intubation Required?**



- Back to BASICS do what you know
- NP and NRB maximized leave until ready
  - take time to prepare, team safety and min re-entry
- · Leave Upright while preparing
- Most experienced provider get help if you can

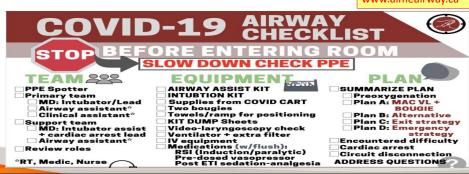
IO – if IV access is an issue
Dissociation? – slow ketamine 1mg/kg

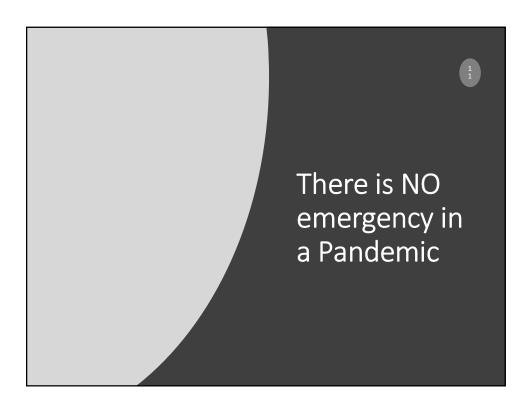
# Intubation - when you're it

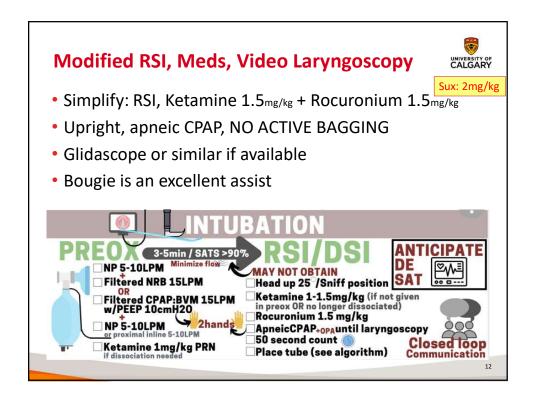


- Team = MD, Airway assist, clinical assist, support outside?
  - 2 people if very limited resources
- STOP check PPE, PPE buddies
- Equipment and Plan BEFORE ENTERING

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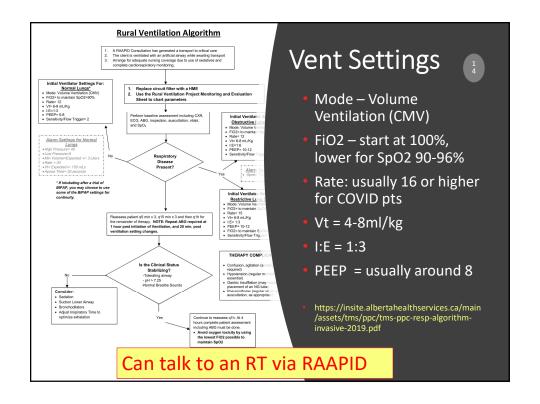






#### **Post-Intubation** CALGARY Cuff up before ventilation / viral filters OG before CXR Hypotension isn't common Sedation protocols post intubation Allow to run drier re fluids RAAPID – now that they are hooked up call for advice Inflate cuff before ventilation Connect directly to ventilator w/viral filter Confirm tube placement by capnographic waveform - secure CIRCUIT DISCONNECTION Place finger Suction Required: Clamp tube; connect inline suction over tube and Hypotension: Rescue Pressor + infusion PRN Norepi, Epi, Phenylephrine attach filter Initial Ventilator: Vt 6-8mL/kg if Driving pressure < 15, Pplat <30 Reassess and titrate as needed PEEP 10-12, Fi02 1.0, RR 16 Sedation-Analgesia: Ketamine/Propofol/Fentanyl Exit one-by-or Exit one-by-one Doff with a spotter

Bolus doses should be available



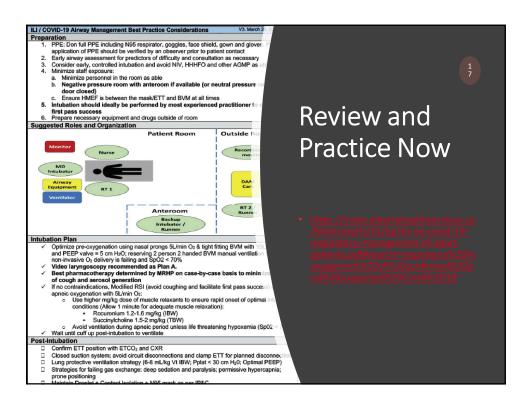
Risk to staff and rest of ED
Take Your Time
PPE Buddy
Lots of hand washing steps

# Important to consider



- Mortality is very high in intubated COVID19 patients
  - · Caution and team protection is essential
- Formal and Informal Sims
  - Go through the steps, it will surprise you what your team learns

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# Lessons we learned by practicing



- Changing into full intubation PPE needs planning
  - Swap nurses, double gloves, N95 masks...
- IV and intubation supplies into a plastic container ready to go
- Anything that goes into the room becomes "dirty"
- PPE buddy system
- Doffing properly is really hard and requires practice
- Sims are NOT just about the passing a tube

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