$PIP = 25 \text{ cmH}_2O$

PIP = 17 cmH₂O

RR = 18 bpm

 $Vte = 500 \, mL$





Case Study #1: VENT

Patient history:	•	Admitted to ICU s/p pneumonia w/ 2 failed extubations
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h/o smoking, HBP, mild COPD

Trached 2 weeks earlier

Shiley #7 cuffed

Awake, alert, following commands **Clinical findings:**

HR and SpO₂ are normal

Hemodynamically stable

Pre-Cuff Deflation:	Settings:	Measurements:
i i c Gaii Beilatioiii	Octingo.	Micadal Cilicito

AC/VC

RR 16 bpm Vt = 500 mL PEEP = 5 cmH₂O

FiO₂ 40

Settings: Measurements:

AC/VC

RR = 16 bpm Vt 500 mL

 $PEEP = 0 cmH_2O$

RR = 18 bpmVte =

> FiO_2 .40

What additional info would you want to know?

Post-Cuff Deflation:

Are the pt's vent parameters stable? Verify & List (review the basic guidelines):

During airway patency assessment - what was the patient's PIP and Vte?

a. Cuff Inflated

b. Cuff Deflated - What should the Vte look like?

What should you adjust on the vent to avoid auto-triggering?

Keep in mind that the Valve in-line is going to affect "flow."

Notes:







Case Study #2: VENT

- 62 y/o male. s/p intubation for COVID for 45 days; no significant PMH; bedside/perc trach 2 weeks ago.
- Admitted to step-down ICU 3 days earlier.
- Bivona #6. Fome-Cuff

Clinical plan and findings:

- Weaning from the vent
- Trial PMV
- $SpO_2 = 96\%$
- Hemodynamically stable
- No s/s of respiratory distress

Dro-	Cuff	Def	ation	
Pre-	Cun	Den	auon	=

Settings:

RR = 16 bpm Vt $= 500 \, \text{mL}$

$FiO_2 =$.48

AC/VC

PEEP = 5 cmH₂O

Measurements:

 $PIP = 25 cmH_2O$ RR = 18 bpm $Vte = 499 \, mL$

Provide 3 indications of why or why not:

What additional information would you want to know?

Is the patient a good candidate?

Cuff deflation considerations:

What vent adjustment is recommended before cuff deflation?

With a drop in Vte, what is the minimum amount we need to assure airway patency?

Will the PIP drop? Why?

Notes:

