Basic Vent Set up
Start here and complete all green steps

Step 1: Mode of Ventilation
Choose mode of ventilation
Volume Assist Control

Step 2: Tidal Volume
Select appropriate tidal volume based on ideal body weight (see table below)
6ml/kg ideal body weight

Step 3: Inspiratory Flow
Select inspiratory flow (if possible)
60ml/min standard starting point
May not be able to set this

Step 4: Respiratory Rate
Select respiratory rate (start at 18b/min adults)
Titrating up 5b/min every 15-20 minutes to achieve CO2 35-45mmHg
MAX RATE 28-30b/min

Step 5: FIO2 and PEEP
Set FIO2 to 100% for all patients as a starting point
Start PEEP at 7cmH20 target SPO2 of above 94% if possible, otherwise 88-91%

Step 6: Check for alveolar safety
Assess the plateau pressure by holding the inspiratory pause button, look at the pressure achieved during the hold
This needs to be <30cmH20

Advanced Steps
Patient not coping on basic settings

Use these adjustments if the patient is not oxygenating using basic settings
DO ALL THE GREEN STEPS FIRST before adjusting

DON’T ADJUST TIDAL VOLUME FOR CO2 goals
See step 6 for TV adjustments

Inspiratory flow can be increased to improve patient comfort
80-100ml/min

Can be increased to a max of 28-30b/min to decrease CO2, this will increase plateau pressure so monitor the effect
May need to accept higher than normal CO2 (Permissive hypercapnia consider calling for advice)

FIO2 already at max
Increase PEEP 2-3cmH20 every 5-10 minutes until target SPO2 reached (88-91%)
Watch plateau pressure carefully
Consider help early, don’t wait

If >30cmH20 reduce tidal volume by 0.5ml/kg until pressure is <30cmH20
Monitor plateau pressure every 15-30 minutes once parameters are set
Once TV at 5ml/kg call for advice
(titration lower comes with some more complex challenges)

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<th>Height (cm)</th>
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<th>165</th>
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