

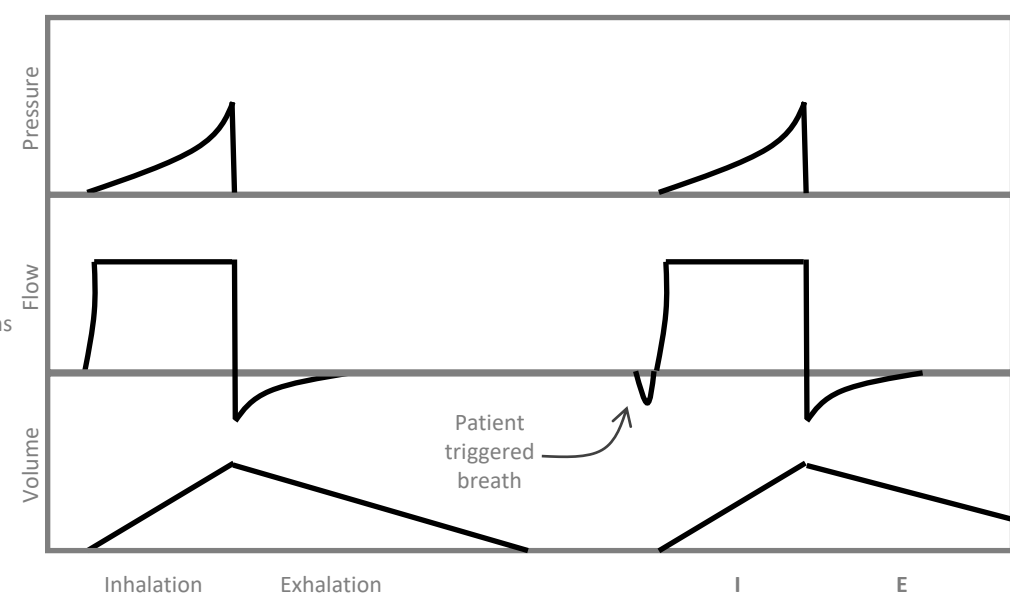
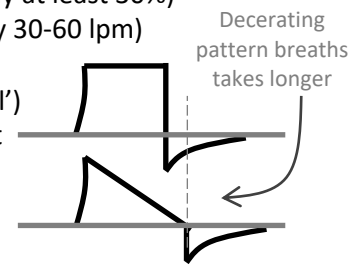


How does this mode work?

- Delivers a set volume of air with each breath; patient triggered breaths are identical to machine triggered breaths
- Time and patient triggered, volume cycled, volume limited mode

What are the variables I set?

- **RR** – respiratory rate
- **TV** – tidal volume (better to express in terms of cc/kg PWB than ccs)
- **PEEP** – positive end expiratory pressure (typically at least +5)
- **FiO2** – fraction of inhaled oxygen (typically at least 30%)
- \dot{V} – (“v dot”) inspiratory flow rate (typically 30-60 lpm)
- **Flow pattern** – is the flow constant (e.g. square wave) or decelerating (“decel”)
Decel may be more comfortable but it prolongs the inspiratory phase



When should I use this mode?

- Ensures that a patient receives a minimum MV
- This is a good general-purpose mode; good for providing Lung Protective Ventilation (LPV)
- PRVC [may have lower peak pressures](#); pressure modes may be more comfortable for select patients

What do I need to monitor?

- Need to make sure the peak pressure and plateau pressure do not exceed safe limits.
→ If P_{plat} is too high decrease the Tv
- You will also need to monitor MV. If the patient is triggering excessively (or auto-triggering), they can become alkalemic.

Choosing Initial settings

- RR - Try to match the persons initial minute ventilation by selecting a rate to match their pre-intubation MV needs.
- TV - Use 8cc/kg PBW and adjust as needed. For patients with ARDS (or at high risk) consider starting at 6cc/kg PBW.
- Start with low PEEP and high FiO2 and wean to maintain SpO2 goal (typically > 90%).

ABG: pH / PCO₂ / PaO₂ / HCO₃



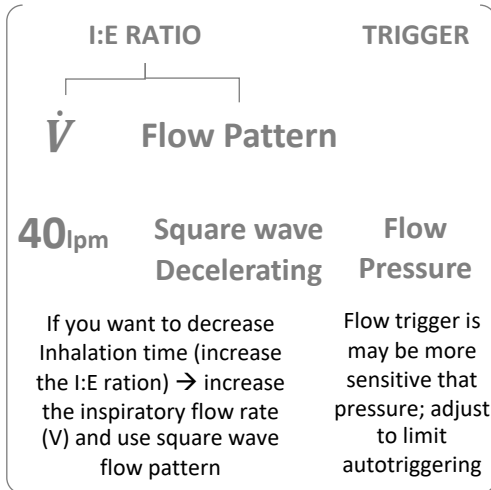
SETTINGS: **RR** **Tv** **PEEP** **FiO2**

EXAMPLE: **12**_{bpm} **6**_{cc/kg} **+5** **50%**

If you want to **increase** the pH → **increase** the minute ventilation (MV) by changing the RR and TV

If you want to **increase** the PaO₂ or SpO₂ → **increase** the FiO₂ and PEEP

Advanced settings



40_{lpm} **Square wave** **Flow**
Decelerating **Pressure**

If you want to decrease Inhalation time (increase the I:E ration) → increase the inspiratory flow rate (V) and use square wave flow pattern

Flow trigger is may be more sensitive that pressure; adjust to limit autotriggering