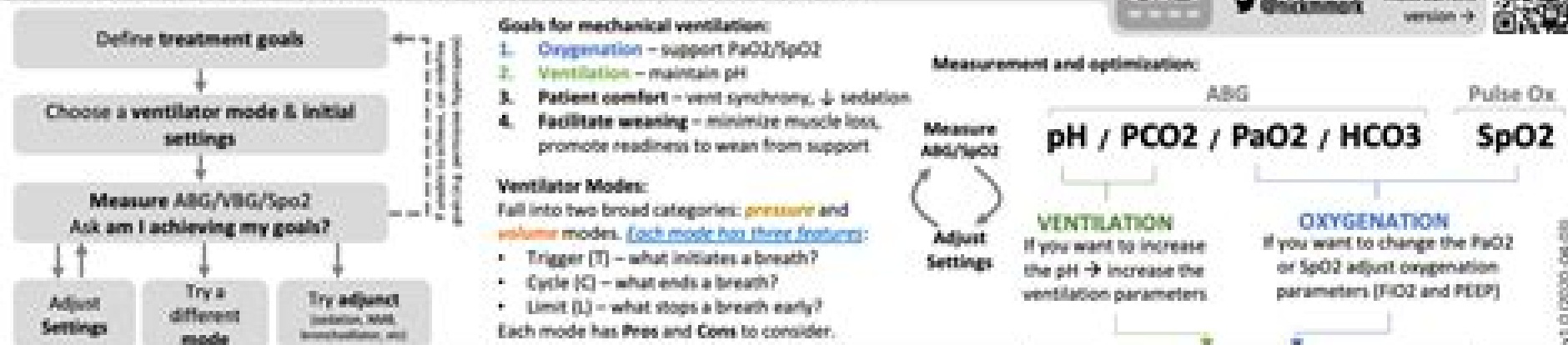


OVERVIEW OF VENTILATOR MODES by Nick Mark MD



Mode	Description	Pros	Cons	Major settings / example	Monitor
VC Volume Control (a.k.a. assist control volume)	Every breath delivered (mandatory and patient triggered) is the same set volume (TV) T – time/pressure/flow, C – volume, L – volume	Good general-purpose mode; Ensures a minimum MV is achieved. Good mode for lung protective ventilation (LPS)	Requires you to monitor pressures to avoid barotrauma. (See my OnePager on ABGs for details.)	RR, TV, PEEP, FIO ₂ 12 bpm, 450cc, +8, 60% (RR – respiratory rate, TV – tidal volume)	Pressures (P _{peak} , P _{plat})
PC Pressure Control (a.k.a. assist control pressure)	Every breath delivered (mandatory & patient triggered) is a set pressure (IP) for a set time (T) T – time/pressure/flow, C – time, L – pressure	Good for limiting pressure; may be more comfortable for select patients. Also can be used for LPS (no difference in mortality)	Requires you to monitor volumes to avoid volutrauma or hypoventilation	RR, IP, T _i , Risetime, PEEP, FIO ₂ 12 bpm, 25 cmH ₂ O, 0.9 sec, 0.15 sec, +8, 60% (IP – inspiratory pressure, T _i – inspiratory time)	Volumes (TV, MV)
PRVC Pressure Regulated Volume Control (a.k.a. VCV, APV, AutoFlow)	Hybrid PC mode that dynamically changes inspiratory pressure to deliver a desired volume T – time/pressure/flow, C – volume, L – volume	Guarantees TV but delivers pressure-controlled breaths; (e.g. low risk of causing VILI), which potentially may be more comfortable for patients	In patients who are struggling (e.g. high WOB) this mode will provide less support	RR, TV, T _i , Risetime, P _{max} , PEEP, FIO ₂ 12 bpm, 450cc, 0.9 sec, 0.15 sec, 30 cmH ₂ O, +8, 60% (P _{max} – maximum pressure)	Pressures & volumes
SIMV Synchronous Intermittent Mandatory Ventilation	Delivers mandatory breaths with a fixed volume but patient can trigger (patient breaths are not the same as mandatory breaths); can use PS T – time, C – volume, L – volume	May be useful for patients with hiccups to avoid alkalemia	Seldom used; not effective for weaning; often found to be uncomfortable	RR, TV, PEEP, FIO ₂ 12 bpm, 450 cc, +8, 60%	Pressure (P _{peak} , P _{plat})
PS Pressure Support	All breaths are patient initiated; ventilation determined solely by patient (no backup rate). T – pressure/flow, C – flow, L – pressure	Ideal weaning mode (used in SBTs and for prolonged periods); most comfortable because it allows patient to control ventilation	Does not guarantee a rate; need to monitor to ensure adequate ventilation	PS, PEEP, FIO ₂ +10, +5, 40% (Note that PS is above PEEP so "Ten over Five" PIP = 15cmH2O)	Volumes (TV, MV)
APRV Airway Pressure Release Ventilation (a.k.a. BiVent)	Inverse ratio ventilation (e.g. if time > 1 time) that allows patient to breath spontaneously; can combine w/ PS T – time, C – time, L – pressure	Great for ARDS patients who are spontaneously breathing (e.g. not on NMBS); maximizes comfort & oxygenation (but no mortality benefit)	Complex mode/settings; risk of VILI if settings are done improperly; doesn't make sense if on NMBS	T _{high} , T _{low} , P _{high} , P _{low} , FIO ₂ 5.5 sec, 0.5 sec, 25 cmH ₂ O, 0 cmH ₂ O, 60% (T_{high}/T_{low} – time high/low, P_{high}/P_{low} – pressure high/low, also note that P_{low} is analogous to PEEP)	Volumes & gas exchange (PCO ₂ /f, EtCO ₂)

Ventilator Operating Guide

K Payea



Ventilator Operating Guide:

This book delves into Ventilator Operating Guide. Ventilator Operating Guide is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ventilator Operating Guide, encompassing both the fundamentals and more intricate discussions.

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