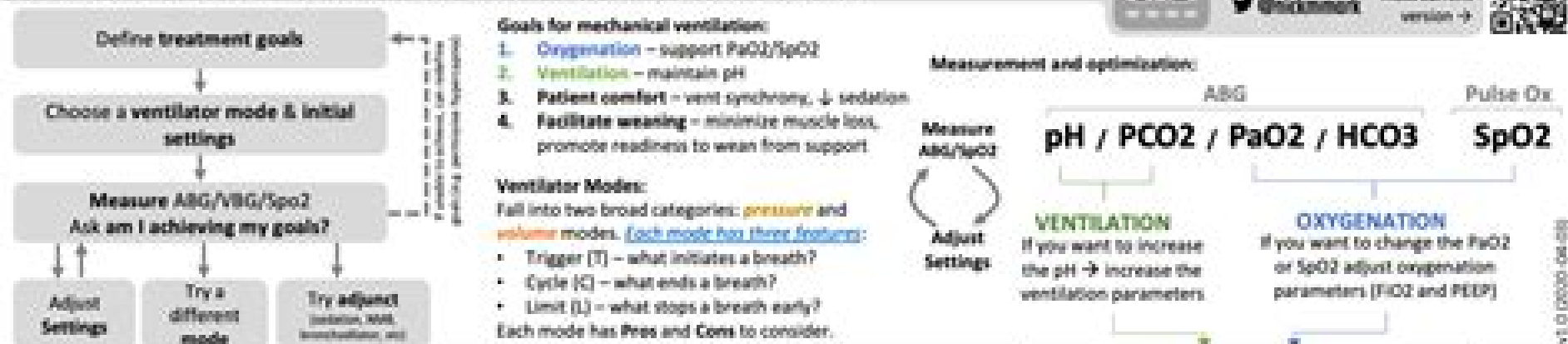


OVERVIEW OF VENTILATOR MODES by Nick Mark MD



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 , I/E CO ₂)

Ventilator Operating Guide

Suhail Raoof, Faroque A. Khan



Ventilator Operating Guide:

U.S. ARMY AEROMEDICAL EVACUATION CRITICAL CARE FLIGHT PARAMEDIC STANDARD MEDICAL OPERATING GUIDELINES (2023-2024) U.S. Army ,2022-12-31 CONTENTS 1 U S ARMY AEROMEDICAL EVACUATION CRITICAL CARE FLIGHT PARAMEDIC STANDARD MEDICAL OPERATING GUIDELINES CY23 Version Published January 2023 318 pages 2 TCCC Guidelines for Medical Personnel 15 December 2021 19 pages 3 JTS Clinical Practice Guidelines 2 260 total pages current as of 19 September 2023 INTRODUCTION The SMOG continues to go through significant improvements with each release as a result of the collaboration of Emergency Medicine professionals experienced Flight Medics Aeromedical Physician Assistants Critical Care Nurses and Flight Surgeons There has been close coordination in the development of these guidelines by the Joint Trauma System and the Defense Committees on Trauma Our shared goal is to ensure the highest quality en route care possible and to standardize care across all evacuation and emergency medical pre hospital units It is our vision that all of these enhancements and improvements will advance en route care across the services and the Department of Defense Unit medical trainers and medical directors should evaluate Critical Care Flight Paramedics CCFP ability to follow and execute the medical instructions herein These medical guidelines are intended to guide CCFPs and prehospital professionals in the response and management of emergencies and the care and treatment of patients in both garrison and combat theater environments Unit medical providers are not expected to employ these guidelines blindly Unit medical providers are expected to manipulate and adjust these guidelines to their unit s mission and medical air crew training experience Medical directors or designated supervising physicians should endorse these guidelines as a baseline appropriately adjust components as needed and responsibly manage individual unit medical missions within the scope of practice of their Critical Care Flight Paramedics Enroute Critical Care Nurses and advanced practice aeromedical providers The medication section of this manual is provided for information purposes only CCFPs may administer medications only as listed in the guidelines unless their medical director and or supervising physician orders a deviation Other medications may be added so long as the unit supervising physician and or medical director approves them This manual also serves as a reference for physicians providing medical direction and clinical oversight to the CCFP Treatment direction which is more appropriate to the patient s condition than the guideline should be provided by the physician as long as the CCFP scope of practice is not exceeded Any medical guideline that is out of date or has been found to cause further harm will be updated or deleted immediately The Medical Evacuation Concepts and Capabilities Division MECCD serves as the managing editor of the SMOG and are responsible for content updates managing the formal review process and identifying review committee members for the annual review The Standard Medical Operating Guidelines are intended to provide medical procedural guidance and is in compliment to other Department of Defense and Department of the Army policies regulatory and doctrinal guidance Nothing herein overrides or supersedes laws rules regulation or policies of the United States DoD or DA

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Guide to Mechanical Ventilation and Intensive Respiratory Care Lynelle N. B. Pierce,1995 This handy guide focuses on respiratory support appliances and various aspects of mechanical ventilation Beginning with an overview of pulmonary anatomy and physiology the book reviews the principles and applications of physical and pharmacologic theories used for the pulomony system A special section on advanced modes of mechanical ventilation is also included Provides a firm scientific basis for patient care and interpretation of complex data to aid understanding of how physiologic processes are altered when mechanical ventilation is applied Discusses methods of airway maintenance including administration of oxygen humidification and aerosol therapy bronchial hygiene techniques and lung expansion therapies Details every phase of mechanical ventilation from patient selection and how the ventilator performs the respiratory cycle to how settings are chosen and how alarm parameters are set Investigates complications how to monitor the patient ventilator system troubleshooting and problem intervention Describes traditional and nonconventional modes as well as alternative methods of mechanical ventilation Covers invasive and noninvasive patient monitoring techniques including pulse oximetry arterial and mixed venous blood gas analysis and more Addresses treatment of tissue oxygenation imbalances methods of weaning and more

Mechanical Ventilation Manual Suhail Raoof,Faroque A. Khan,1998 Based on a highly successful workshop at Annual Session Mechanical Ventilation Manual answers the clinically important questions faced while putting patients on and weaning them from mechanical ventilation Designed for easy use the Manual is divided into three sections Why Ventilate How to Ventilate and Problems During Mechanical Ventilation

Comprehensive Guide to Pre-hospital Skills Alexander M. Butman,1995 The most comprehensive prehospital care skills reference on the market It definitively describes and graphically illustrates how and why to perform every prehospital skill required for both basic and advanced life support Summary skills sheets review the more complex multi part skills

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