




How to start NIV for overlap syndrome? NIV initiation settings for overlap patients: Mode Pressure Support

Variable	Effect	Initial setting	Adjustment	How to monitor the setting?	Settings
Inspiratory Pressure / IPAP	Pressure support	13 cmH ₂ O	+ 2 cmH ₂ O Every 2 min up to the maximum tolerated	Respiratory rate Patient's comfort	Insp. Pressure 13.0 cmH ₂ O
PEEP/EPAP	Counterbalance intrinsic PEEP	7 cmH ₂ O	+ 1 cmH ₂ O As long as an increase decreases the effort to start the breath	Patients effort to trigger the ventilator Synchronization: Ineffective inspiratory efforts	PEEP 7.0 cmH ₂ O PScale 8.0 cmH ₂ O
Rise time	The speed of delivery of the inspiratory phase of the breath	2 (short)	+ 1 As long as the air comes too quick and creates overshoot	Synchronization: Flow overshoot	Rise Time 2 
Inspiratory Trigger	Trigger the ventilator breath	2 (sensitive)	+ 1 As long as auto trigger is present	Patients effort to trigger the ventilator Synchronization: Ineffective inspiratory efforts and / or auto triggering	Insp. Trigger 2  Exp. Trigger 5 
Expiratory trigger	Cessation of the breath in	5	± 1 According to patient comfort	Synchronization: premature or late cycling	Min Insp. Time 0.4 s Max Insp. Time 2.0 s Backup Rate 8 bpm Backup Insp. Time 1.6 s Target Volume Off Auto EPAP Off
Min Insp Time	Ensure a minimal breath time	0.4 s		Asking the patient if when they make no effort to breathe if the breath in is long enough	
Max Insp Time	End the mechanical breath if expiratory trigger fails	2.0 s	Current time + 0.2 s		
Backup Rate	Ensure a minimal breaths per minute	8	Current rate - 4	Asking the patient if the breaths are coming at the right speed	