How to start NIV for COPD? NIV initiation settings for COPD patients: Mode **Pressure Support**

Variable	Effect	Initial setting	Adjustment	How to monitor the setting?
Inspiratory Pressure / IPAP	Pressure support	10 cmH_2O	+ 2 cmH_2O Every 2 min up to the maximum tolerated	Respiratory rate Patient's comfort
PEEP/EPAP	Counterbalance intrinsic PEEP	4 cmH_2O	+ 1 cmH_2O As long as an increase decreases the effort to start the breath	Patients effort to trigger the ventilator Synchronization: Ineffective inspiratory efforts
Rise time	The speed of delivery of the inspiratory phase of the breath	1 (shortest)	+ 1 As long as the air comes too quick and creates overshoot	Synchronization: Flow overshoot
Inspiratory Trigger	Trigger the ventilator breath	1 (most sensitive)	+ 1 As long as auto trigger is present	Patients effort to trigger the ventilator Synchronization: Ineffective inspiratory efforts and / or auto triggering
Expiratory trigger	Cessation of the breath in	3	± 1 According to patient comfort	Synchronization: premature or late cycling
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 - 10	Current rate - 4	Asking the patient if the breaths are coming at the right speed