




## How to start NIV for chest wall stiffness? NIV initiation settings for chest wall stiffness patients: Mode Pressure Support

Variable	Effect	Initial setting	Adjustment	How to monitor the setting?	Settings
Inspiratory Pressure / IPAP	Pressure support	10 cmH <sub>2</sub> O	+ 2 cmH <sub>2</sub> O Every 2 min up to the maximum tolerated	Respiratory rate Patient's comfort	Insp.Pressure 10.0 cmH <sub>2</sub> O
PEEP/EPAP	Counterbalance intrinsic PEEP	4 cmH <sub>2</sub> O	+ 1 cmH <sub>2</sub> O As long as an increase decreases the effort to start the breath	Upper airway obstruction during sleep	PEEP 4.0 cmH <sub>2</sub> O
Rise time	The speed of delivery of the inspiratory phase of the breath	3	+ 1 As long as the air comes too quick and creates overshoot	Synchronization: Flow overshoot	PScal 6.0 cmH <sub>2</sub> O
Inspiratory Trigger	Trigger the ventilator breath	1 <sub>(most sensitive)</sub>	+ 1 As long as auto trigger is present	Patients effort to trigger the ventilator Synchronization: Ineffective inspiratory efforts and / or auto triggering	Rise Time 3 
Expiratory trigger	Cessation of the breath in	8	± 1 According to patient comfort	Synchronization: premature or late cycling	Insp. Trigger 1 
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	Exp.Trigger 8 
Max Insp Time	End the mechanical breath if expiratory trigger fails	2.0 s	Current time + 0.2 s		Min Insp.Time 0.4 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	Max Insp.Time 2.0 s
					Backup Rate 8 bpm
					Backup Insp.Time 1.5 s
					Target Volume Off
					Auto EPAP Off