

Respiratory Care & Ventilator Settings

Mode	<p>CMV: Full ventilator support, no patient effort required.</p> <p>AC: Assist/Control. Patient can trigger breaths, but machine controls volume and rate.</p> <p>AP: Assist/Pressure. Patient triggers breaths, machine controls pressure and rate.</p> <p>CPAP: Continuous Positive Airway Pressure. No tidal volume support, just pressure.</p> <p>BiPAP: Bilevel Positive Airway Pressure. Two pressure levels for inspiration and expiration.</p>
Flow	<p>Flow-Limited: Patient can breathe as fast as they want.</p> <p>Flow-Cycled: Machine breaths end when flow returns to baseline.</p>
Volume	<p>Volume Targeted: Machine delivers a set volume (e.g., 500ml).</p> <p>Pressure Targeted: Machine delivers breaths up to a set pressure (e.g., 15cmH2O).</p>
Rate	<p>Rate-Limited: Machine breaths at a set rate (e.g., 12/min).</p> <p>Flow-Cycled: Rate is determined by patient's breathing effort.</p>

Respiratory Mechanics

Parameter	<p>Compliance: Change in volume per change in pressure. High compliance = "floppy" lungs.</p> <p>Resistance: Opposition to airflow. High resistance = "stiff" airways.</p>
Flow	<p>Flow-Limited: Flow is constant during inspiration.</p> <p>Flow-Cycled: Flow returns to baseline at the end of inspiration.</p>
Volume	<p>Volume Targeted: Machine delivers a set volume.</p> <p>Pressure Targeted: Machine delivers breaths up to a set pressure.</p>
Rate	<p>Rate-Limited: Machine breaths at a set rate.</p> <p>Flow-Cycled: Rate is determined by patient's breathing effort.</p>



Flow-Cycled Mode

Flow returns to baseline at the end of inspiration, triggering the next breath.

Normal Values

Parameter	<p>Normal: 12-20 breaths/min, 500ml tidal volume, 2.5-3.5 L/min flow.</p> <p>Normal: 100-150ml dead space volume.</p>
Flow	<p>Normal: 12-20 breaths/min, 500ml tidal volume, 2.5-3.5 L/min flow.</p>
Volume	<p>Normal: 100-150ml dead space volume.</p>
Rate	<p>Normal: 12-20 breaths/min, 500ml tidal volume, 2.5-3.5 L/min flow.</p>



Pressure Control

Parameter	<p>Pressure Control: Machine breaths up to a set pressure.</p> <p>Pressure Support: Patient triggers breaths, machine supports pressure.</p>
Flow	<p>Flow-Limited: Patient can breathe as fast as they want.</p> <p>Flow-Cycled: Machine breaths end when flow returns to baseline.</p>
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Rate	<p>Rate-Limited: Machine breaths at a set rate (e.g., 12/min).</p> <p>Flow-Cycled: Rate is determined by patient's breathing effort.</p>

Low Positive End-Expiratory Pressure (PEEP)

Parameter	<p>PEEP: Positive End-Expiratory Pressure. Pressure maintained in the lungs at the end of expiration.</p> <p>PEEP: Positive End-Expiratory Pressure. Pressure maintained in the lungs at the end of expiration.</p>
Flow	<p>Flow-Limited: Patient can breathe as fast as they want.</p> <p>Flow-Cycled: Machine breaths end when flow returns to baseline.</p>
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Advanced Therapies for ARDS

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High Pressure, Dead Space, & Compliance

Parameter	<p>High Pressure: Increased airway resistance or decreased compliance.</p> <p>Dead Space: Volume of air that does not participate in gas exchange.</p> <p>Compliance: Change in volume per change in pressure. High compliance = "floppy" lungs.</p>
Flow	<p>Flow-Limited: Patient can breathe as fast as they want.</p> <p>Flow-Cycled: Machine breaths end when flow returns to baseline.</p>
Volume	<p>Volume Targeted: Machine delivers a set volume.</p> <p>Pressure Targeted: Machine delivers breaths up to a set pressure.</p>
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