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Overview of Mechanical Ventilation

 By **Shamir K. Patel, MD**, University of Chicago

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Mechanical ventilation can be

- **noninvasive**, involving various types of face masks,
- **invasive**, involving **endotracheal intubation**.

Selection and use of appropriate techniques require an understanding of respiratory mechanics.

Indications

 There are numerous indications for endotracheal intubation and mechanical ventilation (see Table: [Situations Requiring Airway Control](#)), but, in general, mechanical ventilation should be considered when there are clinical or laboratory signs that the patient cannot maintain an airway or adequate oxygenation or ventilation.

Concerning findings include

- Respiratory rate > 30/min
- Inability to maintain arterial oxygen saturation > 90% with fractional inspired oxygen ($F_{I_{O_2}}$) = 0.60
- P_{aCO_2} >50 mm Hg with pH < 7.25

The decision to initiate mechanical ventilation should be based on clinical judgment that considers the entire clinical situation and should not be delayed until the patient is in extremis.

Respiratory Mechanics

Normal inspiration generates negative intrapleural pressure, which creates a pressure gradient between the atmosphere and the alveoli, resulting in air inflow. In mechanical ventilation, the pressure gradient results from increased (positive) pressure of the air source.

Peak airway pressure is measured at the airway opening (P_{aw}) and is routinely displayed by mechanical ventilators. It represents the total pressure needed to push a volume of gas into the lung and is composed of pressures resulting from inspiratory flow resistance (resistive pressure), the elastic recoil of the lung and chest wall (elastic pressure), and the alveolar pressure present at the beginning of the breath (positive end-expiratory pressure [PEEP])—see Figure: [Components of airway pressure during mechanical ventilation, illustrated by an expiratory-flow maneuver](#). Thus,

$$\begin{aligned} \text{Peak airway pressure} = \\ & \text{resistive pressure} + \\ & \text{elastic pressure} + \text{PEEP} \end{aligned}$$

Resistive pressure is the product of circuit resistance and airflow. In the mechanically ventilated patient, resistance to airflow occurs in the ventilator circuit, the endotracheal tube, and, most importantly, the patient's airways. (Note: Even when these factors are constant, an increase in airflow increases resistive pressure.)

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**Jessica Lovich-Sapola, Maureen
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