Noninvasive positive-pressure ventilation (NPPV) for acute respiratory failure


Record Status
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Citation

Authors’ objectives
Noninvasive positive-pressure ventilation (NPPV) is a form of mechanical ventilatory support delivered to patients with acute respiratory failure through a noninvasive interface. In patients with a range of etiologies for acute respiratory failure, NPPV has the potential to reduce complications and improve outcomes compared to invasive ventilation.

Authors’ conclusions
For patients with acute respiratory failure due to severe exacerbations of COPD or congestive heart failure, NPPV improves outcomes compared to supportive care alone. Current evidence suggests potential benefit for patients with acute respiratory failure who are postoperative or post-transplant, and in selected populations, as a method to facilitate weaning from invasive ventilation or prevent recurrent respiratory failure postextubation. Limited evidence shows similar treatment effects across different settings and the possibility of less benefit in trials designed to replicate usual clinical practice.

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