



# Non-Invasive Ventilation (NIV) Studies Show Significant Reduction in Hospitalizations, ER Visits, Deaths, and Healthcare Costs



**38.3%**  
REDUCTION IN  
Risk of Death<sup>1</sup>



**63.4%**  
REDUCTION IN  
Hospital  
Readmissions<sup>2</sup>



**45.5%**  
REDUCTION IN  
ER Visits<sup>1</sup>



**57%**  
PROJECTED  
REDUCTION IN  
Hospital's Costs<sup>3</sup>

## Current Situation

Patients with Chronic Obstructive Pulmonary Disease with Chronic Respiratory Failure (COPD-CRF) experience higher mortality and higher than average healthcare utilization. Non-Invasive Ventilation at Home (NIVH) is increasingly being used to treat these patients. These studies examined the multiple benefits associated with the implementation of NIVH therapy.

## NIV Treatment

NIVH therapy significantly reduced:

- Risk of death
- Hospitalizations
- ER visits
- Healthcare costs to both hospitals and insurance providers

After NIVH therapy was started, there was a 38.3% reduction in risk of death, a 63.4% reduction in hospital readmissions, a 45.5% reduction in ER visits, and a projected 57% reduction in costs for hospitals and healthcare payors.

## Conclusion

NIVH therapy is associated with reduced risk of death, hospitalizations, and ER visits for people diagnosed with COPD-CRF. There was also a projected reduction in healthcare costs for hospital systems and insurance providers.

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1. Non-invasive ventilation at home improves survival and decreases healthcare utilization in Medicare beneficiaries with Chronic Obstructive Pulmonary Disease with chronic respiratory failure; William D. Frazier, Richard Murphy and Emma van Eijndhoven.

2. Effect of Home Noninvasive Ventilation With Oxygen Therapy vs Oxygen Therapy Alone on Hospital Readmission or Death After an Acute COPD Exacerbation. Patrick B. Murphy, PhD; Sunita Rehal, MSc; Gill Arbane, BSc (Hons); Stephen Bourke, PhD; Published May 21, 2017.

3. A quality improvement initiative for COPD patients: A cost analysis. David Trout, Archita H. Bhansali, Dushon D. Riley, Fred W. Peyerl, Teofilo L. Lee-Chiong Jr. Published: July 6, 2020.