

NHF was found to be non-inferior to NIV for rates of endotracheal intubation or death at 7 days, within all specified patient groups, except immunocompromised patients with hypoxemic respiratory failure.

## **Editorials**

"The results are best interpreted as indicating that initiating treatment with high-flow oxygen is generally not harmful"

"These results suggest that high-flow oxygen can serve as a safe bridge therapy while the underlying cause of acute respiratory failure is determined and the most appropriate respiratory support is ultimately implemented."

#### JEAN-PIERRE FRAT



Is High-Flow Oxygen the Standard for All Patients With Acute Respiratory Failure? JAMA. December 10, 2024.

"The authors deserve recognition for the trial's ambitious scope and adaptive design that allowed for real-time adjustments to improve relevance and applicability."

#### YONATHAN FREUND



Reevaluating Respiratory Support in Acute
Respiratory Failure – Insights From the
RENOVATE Trial and Implications for Respiratory Failure – Insights From the RENOVATE Trial and Implications for Practice. JAMA. December 10, 2024.



# **Publication**

The RENOVATE **Randomized Clinical Trial** JAMA. 2024

**High-Flow Nasal Oxygen** vs Noninvasive Ventilation in Patients With **Acute Respiratory Failure.** 

### **AIM**

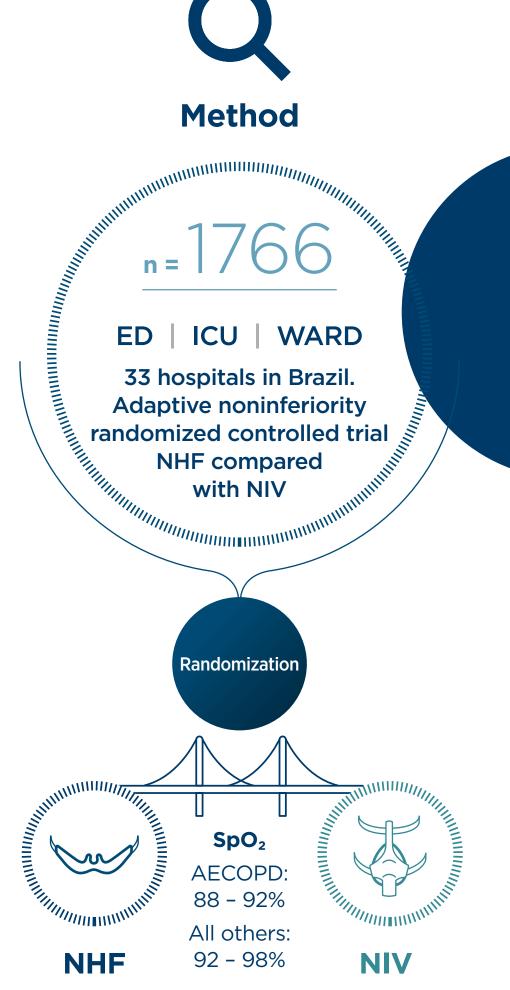
To assess whether NHF is non-inferior to NIV on the rates of endotracheal intubation or death at 7 days in 5 patient groups with acute respiratory failure.

## **PATIENT GROUPS**

- Non-immunocompromised with hypoxemia
  - AECOPD with respiratory acidosis
  - Acute cardiogenic pulmonary edema
  - Hypoxemic COVID-19
  - Immunocompromised with hypoxemia

**JAMA** Abstract:





with Airvo 2 starting flow rate

Gradual titration to 60 L/min or highest tolerated

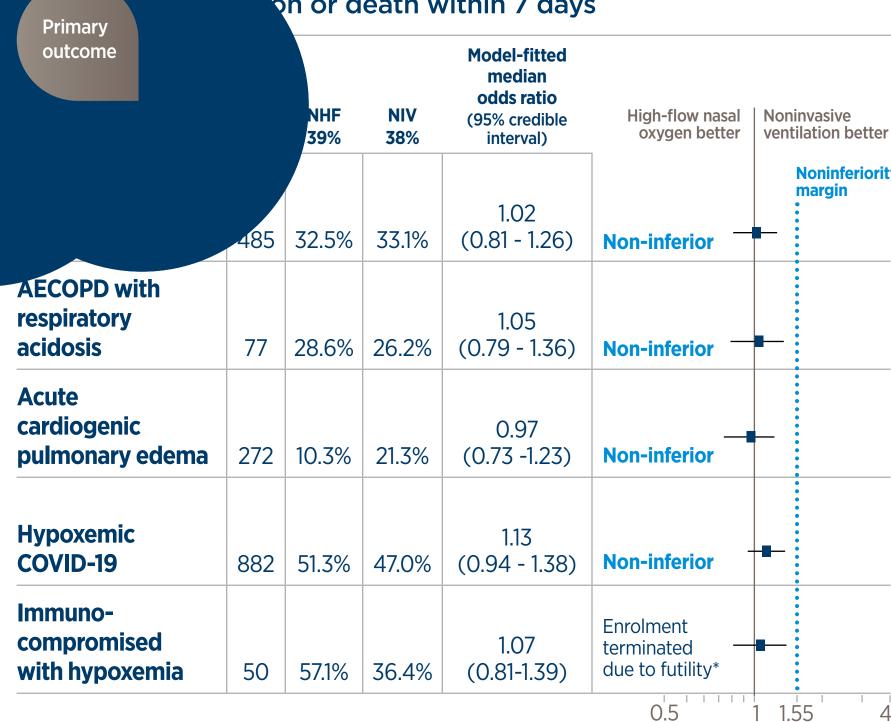
AECOPD: 30 L/min All others: 45 L/min

**IPAP:** (max 20 cm $H_2O$ ) AECOPD: 12 - 16 cmH<sub>2</sub>O All others: 12 - 14 cmH<sub>2</sub>O **EPAP:** (max  $12 \text{ cmH}_2\text{O}$ ) AECOPD: 4 cmH<sub>2</sub>O All others: 8 cmH<sub>2</sub>O Tidal volume: 6 - 9 ml/kg of ideal body weight

IPAP: Inspiratory positive airway pressure; EPAP: Expiratory positive airway pressure;



on or death within 7 days







# No difference in:

- Day 28 or day 90 mortality
- ICU days or ventilator-free days





## **NHF** was superior for:

Patient comfort



### No difference in:

- Hospital and ICU LoS within 90 days
- Vasopressor-free days within 28 days
- DNI order within 7 days