



Key Points

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NHF in combination with NIV reduced reintubation rate
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Publication

Thille et al. 2019. JAMA.
aka the HIGH-WEAN study

What was the aim of this study?

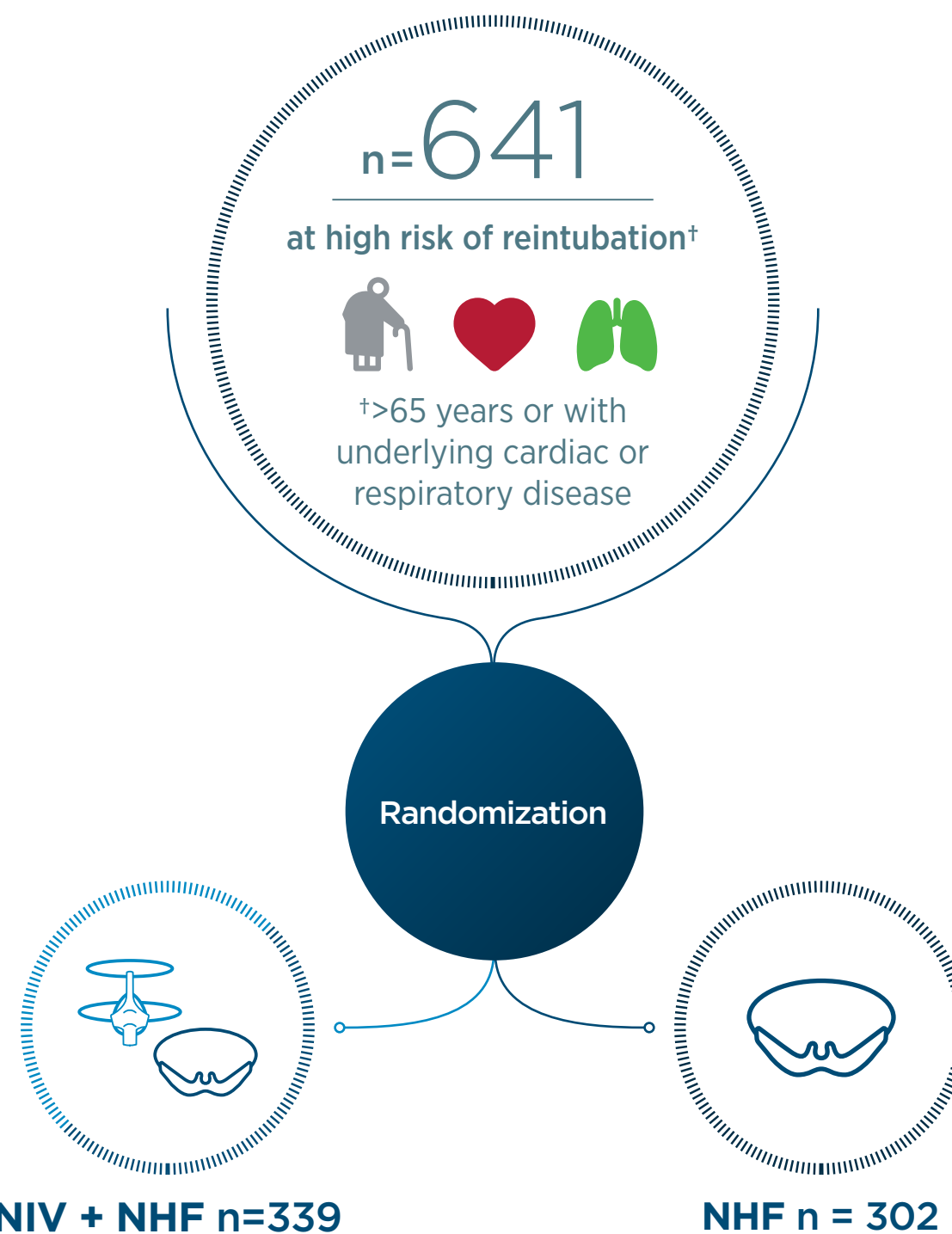
Postextubation failure is associated with significant mortality and morbidity.

This study tested the hypothesis that the combination of noninvasive ventilation (NIV) and Nasal High Flow (NHF) is a superior ventilation strategy when compared to NHF alone, in patients at high risk of postextubation failure.

30 ICUs in France



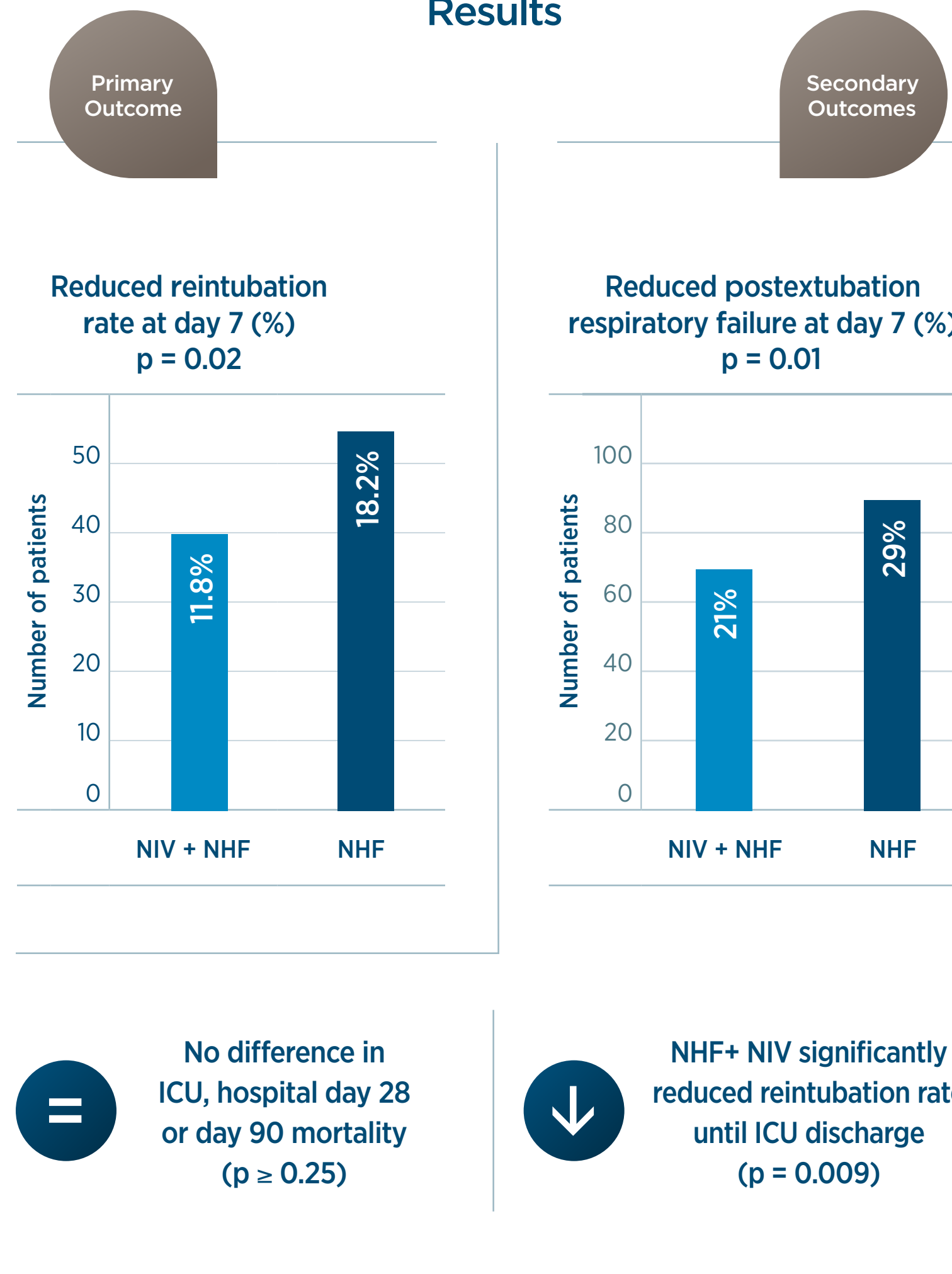

Method



Treatment application	Treatment application
<ul style="list-style-type: none"> NIV for 1st 4 hours then ≥ 12 hours per day Between NIV, NHF was delivered 	<ul style="list-style-type: none"> NHF alone for ≥ 48 hours
Treatment settings (by protocol)	Treatment settings (by protocol)
<ul style="list-style-type: none"> PS min. 5 cmH₂O, PEEP 5 to 10 cmH₂O TV target 6 to 8 ml/kg FiO₂ titrated to a target SpO₂ > 92% 	<ul style="list-style-type: none"> Starting 50 L/min, Humidifier set at 37°C FiO₂ titrated to a target SpO₂ > 92%
Mean (actual) treatment settings	Mean (actual) treatment settings
<ul style="list-style-type: none"> PS 7.8 cmH₂O, PEEP 5.3 cmH₂O, FiO₂ .34 TV of 8.6 ml/kg 	<ul style="list-style-type: none"> 50 L/min FiO₂ .41



Results



Further reading

