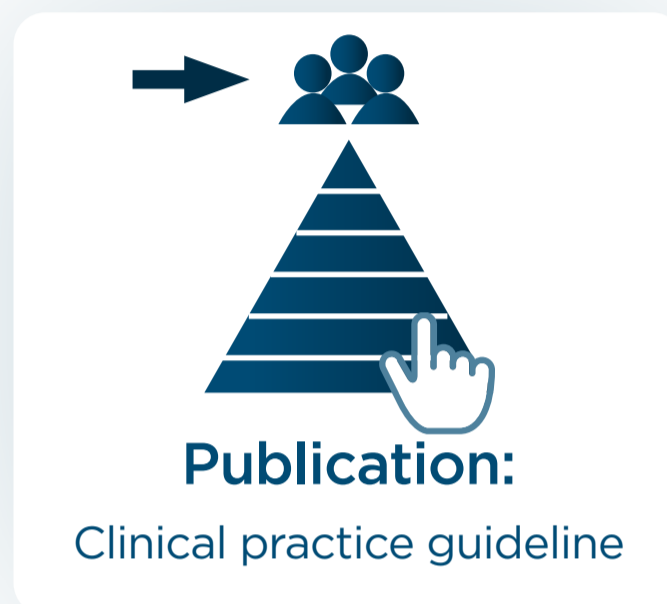


# Oczkowski et al 2021

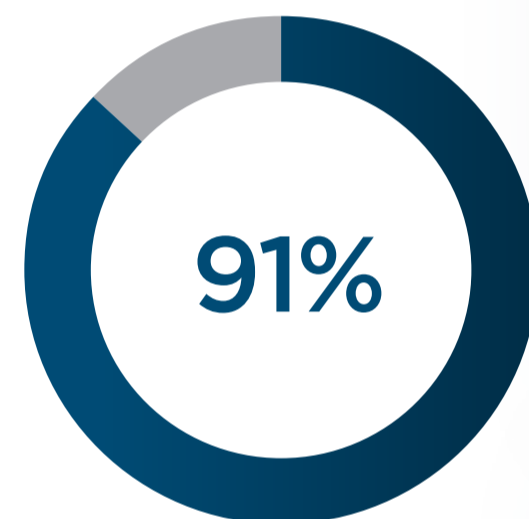
## European Respiratory Journal

### ERS Clinical Practice Guidelines: High-flow nasal cannula in acute respiratory failure.



#### Objective:

To provide evidence-based recommendations for the use of HFNC\* alongside other noninvasive forms of respiratory support in adults with acute respiratory failure.

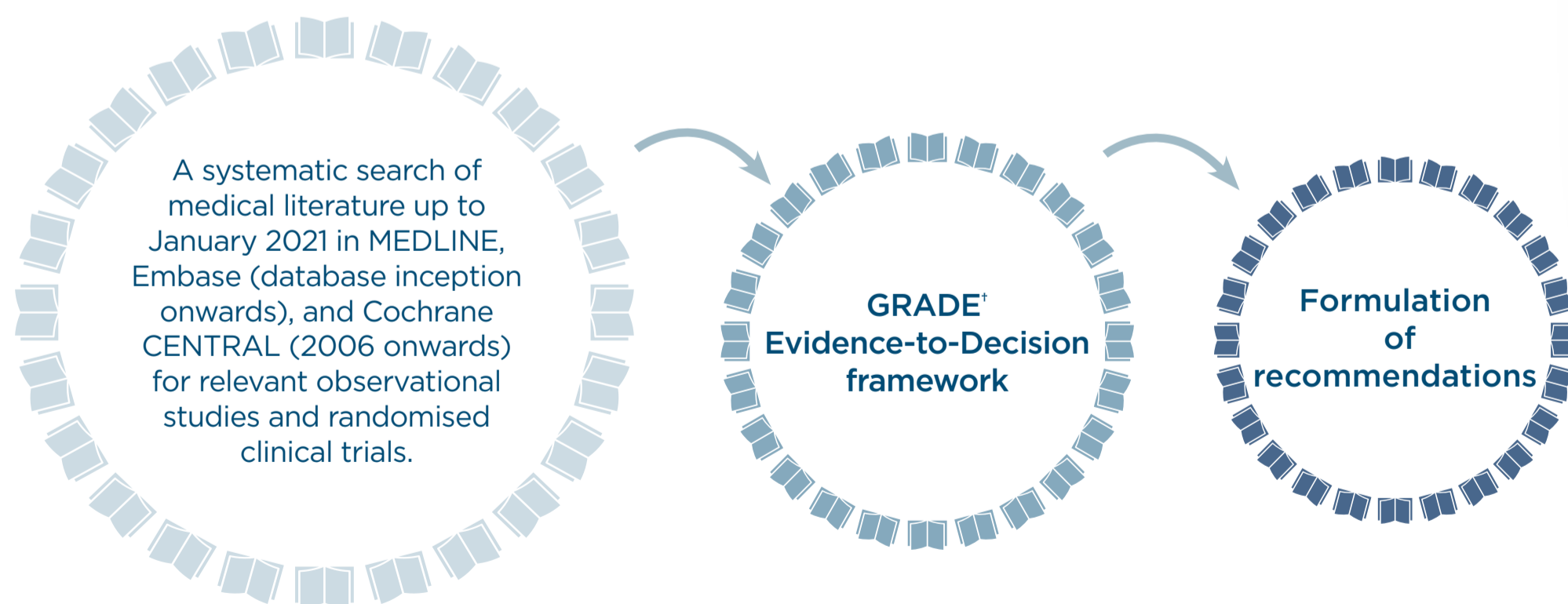


91% of the published studies used F&P Optiflow™ Systems.

#### Panel composition

The European Respiratory Society Task Force panel consisted of expert clinicians and methodologists in respiratory and acute care medicine.

#### Method



\*HFNC: High flow nasal cannula †GRADE Evidence-to-Decision framework considers the balance of desirable and undesirable effects, patient value and preferences, resource use, cost-effectiveness, health equity, and acceptability and feasibility of an intervention ††COT: Conventional oxygen therapy ††NIV: Noninvasive ventilation ††COPD: Chronic obstructive pulmonary disease ||Type I AHRF: Type I Acute hypoxemic respiratory failure #Type II AHRF: Type II Acute hypercapnic respiratory failure

## Recommendations

### Primary respiratory support

Type I AHRF<sup>||</sup>



#### Acute hypoxemic respiratory failure

"We suggest the use of HFNC over COT<sup>††</sup> in patients with acute hypoxemic respiratory failure."

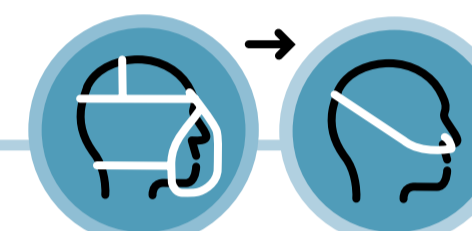
Conditional Recommendation



#### Acute hypoxemic respiratory failure

"We suggest the use of HFNC over NIV<sup>††</sup> in patients with acute hypoxemic respiratory failure."

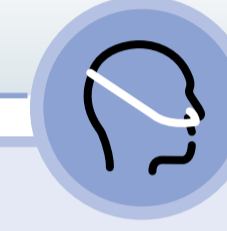
Conditional Recommendation



#### Rest breaks from NIV

"We suggest the use of HFNC over COT during breaks from NIV in patients with acute hypoxemic respiratory failure."

Conditional Recommendation



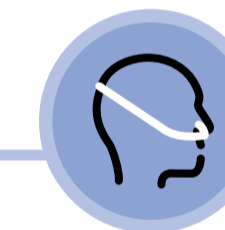
#### Acute hypercapnic respiratory failure

"We suggest a trial of NIV prior to use of HFNC in patients with COPD<sup>††</sup> and acute hypercapnic respiratory failure."

Conditional Recommendation

Type II AHRF<sup>#</sup>

Post-operative support



#### Post-operative

"We suggest the use of COT or HFNC in post-operative patients at low risk of respiratory complications."

Conditional Recommendation



#### Post-operative

"We suggest either HFNC or NIV in post-operative patients at high risk of respiratory complications."

Conditional Recommendation

### Post-extubation respiratory support



#### Post-extubation respiratory failure

"We suggest HFNC over COT in non-surgical patients after extubation at low or moderate risk of extubation failure."

Conditional Recommendation



#### Post-extubation respiratory failure

"We suggest the use of NIV over HFNC after extubation for patients at high risk of extubation failure unless there are relative or absolute contraindications to NIV."

Conditional Recommendation