

# FD140i Delivering Safe & Effective CPAP



The enhanced safety features of the FD140i enable safe and effective CPAP therapy.

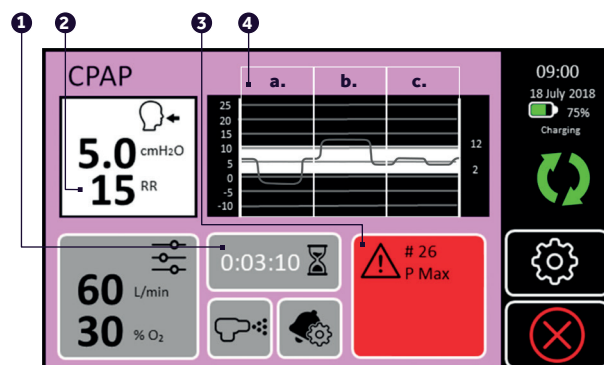
The NHS Guidance for the role and use of non-invasive respiratory support in adult patients with COVID-19<sup>1</sup> recommend CPAP as the primary mode of non-invasive respiratory support.

"After CPAP is applied, the patient should be reviewed over 30 minutes to detect failed response or further decline."

"Monitoring should focus on the regular measurement of respiratory rate, work of breathing, oxygen saturation and heart rate."

## The FD140i provides accurate respiratory monitoring for informed assessment.

1. Therapy timer to assist with vital early assessment.
2. Respiratory rate.
3. Pressure and apnoea alarms.
4. Sensitive respiratory wave highlights patients work of breathing and assists with setting optimal flow rates:
  - a. **Insufficient Flow** - Flow below patients PIR will cause airway pressure to drop below desired level and increase WOB.
  - b. **Excess Flow** - Excess flow above the patients PIR will increase PEEP and waste oxygen.
  - c. **Optimal Flow** - Optimal flow will maintain desired pressure during inspiratory and expiratory phases, minimising patients work of breathing.



The **FD140i** is a dual high flow & CPAP device with additional CPAP Helmet mode.



As the pandemic evolves, it is clear that CPAP is critical in the treatment of COVID-19 around the world.

Reducing the need for invasive ventilation has become an important strategy in managing ICU resource.

### The role of CPAP in avoiding intubation

Lawton et al<sup>2</sup> reported their results for 559 patients admitted with COVID-19. Following CPAP, 64% of patients who were candidates for escalation, avoided intubation.

### Enhanced Protection

Rali et al<sup>3</sup> highlighted significant concern about the exposure of health care workers to aerosolized viral pathogens when providing NIPPV with a facemask.

"The helmet interface achieves the dual objective of providing NIPPV while also minimizing aerosolization"

"The benefit of the FD140 is the easy transition to CPAP when HFOT is not enough. Our Doctors reported positive results with CPAP when treating COVID-19."

*Agustin Martin, Martin Vecino, Spain.*



#### References:

<sup>1</sup> <https://www.england.nhs.uk/coronavirus/wp-content/uploads/sites/52/2020/03/specialty-guide-NIV-respiratory-support-and-coronavirus-v3.pdf>

<sup>2</sup> Lawton et al, 2020. Reduced ICU demand with early CPAP and proning in COVID-19 at Bradford: a single centre cohort. <https://www.medrxiv.org/content/10.1101/2020.06.05.20123307v1>

<sup>3</sup> Rali et al, 2020. Helmet CPAP revisited in COVID-19 pneumonia: A case series. Can J Respir Ther Vol 56