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# Hamilton Medical introduces O2 assist – revolutionizing precision oxygen management in critical care

*Bonaduz, Switzerland – Hamilton Medical, a global leader in Intelligent Ventilation solutions, announces the launch of O2 assist, an advanced oxygen management technology designed to optimize oxygen therapy in critical care settings.*

In critical care, hypoxemia and hyperoxemia pose significant risks to patient health. Manual oxygen adjustments can be time-intensive and prone to delays. By continuously adjusting the oxygen concentration, O2 assist serves as a useful tool for managing oxygen therapy in patient conditions that cause oxygen requirements to fluctuate, such as Acute Hypoxemic Respiratory Failure (AHRF), ARDS or severe bronchiolitis. <sup>1, 2, 3</sup>

## Designed for today's ICU, NICU, and PICU challenges

Oxygen management with O2 assist results in more time spent within the SpO2 target range than manual adjustments.<sup>1, 3, 4, 5</sup> This helps clinicians to better align the therapy with hospital protocols and guidelines.

More time spent in the SpO2 target range reduces the risk of hypoxemia and hyperoxemia, potentially leading to better patient outcomes.<sup>1, 2, 3, 5</sup> By maintaining constant oxygen levels, O2 assist can help lower the incidence of these and associated complications.<sup>1, 3, 4</sup>

Continuous oxygen management maintains target oxygen saturation levels more effectively than manual oxygen titration and requires fewer adjustments by healthcare staff.<sup>2, 5</sup>

Additionally, optimized oxygen management minimizes oxygen wastage by delivering just enough to satisfy the patient's real-time needs, making it both cost effective and environmentally sustainable.<sup>2, 5</sup> As O2 assist does not require extensive training, it also helps to save personnel resources.

“This innovation empowers critical care teams with an advanced way to manage oxygen therapy, ensuring greater precision, consistency, and efficiency,” said Fabrizio Raedelli, Director of Product Management at Hamilton Medical. “By reducing manual interventions, O2 assist allows clinicians to focus on what matters most: patient care.”

## Availability

O2 assist is designed for use in adults, pediatric patients, and neonates with a gestational age of 37 weeks or more on the HAMILTON-C6/C1/T1 ventilators and HAMILTON-HF90 high flow oxygen therapy devices.

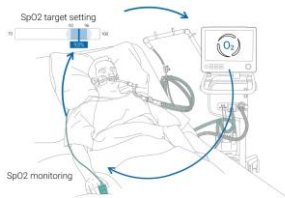
For more information, visit [[O2 assist for oxygen management | Hamilton Medical](#)].

## References

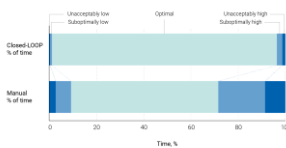
- 1 Roca O. Crit Care. 2022 Apr 14;26(1):108.
- 2 Atakul G. Frontiers in Medicine. 2024;11:1426969.
- 3 Sandal O. Front Med (Lausanne). 2022 Nov 16;9:1046902.
- 4 Mol C. PLoS One. 2024 Jun 12;19(6):e0304745.
- 5 Trottier M. Respiratory Care. 2023;68(11):1553-1560.

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## Picture legends

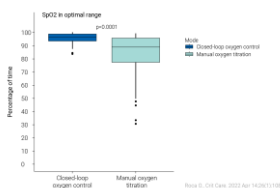


Picture 1: Continuous oxygen management with O2 assist



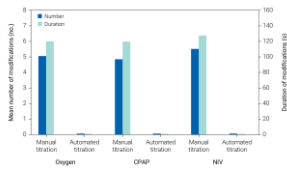
Atakul G, Ockler S, Sandal O, et al. Frontiers in Medicine. 2024;11:1426969.

Picture 2: Atakul G. Frontiers in Medicine. 2024;11:1426969.



Roca O, Crit Care. 2022 Apr 14;26(1):108.

Picture 3: Roca O. Crit Care. 2022 Apr 14;26(1):108.



Trotter M. Respiratory Care. 2023;68(11):1553-1560.

Picture 4: Trotter M. Respiratory Care. 2023;68(11):1553-1560.

## About Hamilton Medical

In 1983, Hamilton Medical was founded with a vision: To develop Intelligent Ventilation solutions that make life easier for patients in critical care and for the people who care for them. Today, Hamilton Medical is a leading manufacturer of critical care ventilation solutions for a variety of patient groups, applications, and environments.

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