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Hamilton Medical and Timpel join forces to advance lung-protective ventilation with PulmoMap

Bonaduz, Switzerland / São Paulo, Brazil — Hamilton Medical, a global leader in Intelligent Ventilation solutions, and Timpel, a pioneer in Electrical Impedance Tomography (EIT), announce a strategic cooperation that brings new insight and precision to lung monitoring in critical care.

In recent years, Electrical Impedance Tomography (EIT) has gained strong attention in intensive care as a noninvasive, bedside imaging technique that provides clinicians with live visualization of lung performance at the bedside. By displaying how ventilation and perfusion distribute across lung regions, EIT supports individualized strategies to optimize ventilation.

At the upcoming AARC International Congress 2025 (December 6–9, Phoenix, Arizona), Hamilton Medical will unveil a first glance at PulmoMap, a next-generation EIT device powered by Timpel technology. PulmoMap is designed to complement the HAMILTON-C6 ventilator and deliver real-time and regional visualization of the patient’s response to ventilation on a dedicated screen.

“By combining Hamilton Medical’s expertise in mechanical ventilation with Timpel’s leadership in EIT imaging, PulmoMap will offer a new level of clarity in patient lung monitoring and confidence in ventilation settings adjustment,” said Fabrizio Redaelli, Director of Product Management at Hamilton Medical. PulmoMap will function as an accessory to the HAMILTON-C6 ventilator and can be used across multiple HAMILTON-C6 ventilators, offering a flexible and scalable approach to advanced lung monitoring.

With PulmoMap, Hamilton Medical and Timpel set a new benchmark for integrated, data-driven respiratory care, reaffirming their shared commitment to advancing lung-protective ventilation and bringing the best respiratory care to anyone, anywhere. “Our collaboration with Hamilton Medical brings together two leaders in respiratory innovation with a shared mission: to empower clinicians with actionable insights to improve outcomes,” said Rafael Holzacker, CEO of Timpel.

Picture legends



The new HAMILTON-C6 and our PulmoMap EIT solution powered by Timpel

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.

About Timpel

Headquartered in São Paulo, Brazil, Timpel is a leading innovator in Electrical Impedance Tomography (EIT) for clinical monitoring, allowing live visualization of lung performance at the bedside — enabling clinicians to tailor ventilation strategies in real time. Timpel aims to enable targeted, timely and individualized ventilatory care to improve outcomes for patients needing ventilatory support.

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