

PulmoMap®

Set the strategy, see the impact

No lung is homogenous and the mechanical properties of different lung regions can vary greatly. PulmoMap enables continuous monitoring of regional ventilation right at the bedside, complementing global ventilator data to give you the complete picture for assessing treatment responses and individualizing ventilation.

PulmoMap — A modular integrated electrical impedance tomography (EIT) solution for the HAMILTON-C6.

TIMPEL | HAMILTON MEDICAL

Functional lung imaging at the bedside

The lungs are heterogeneous, particularly in critically ill patients[1, 3]. Regional differences in compliance, aeration, and perfusion mean that different lung regions can respond differently to the same ventilation settings[1, 2, 3]. Global ventilator parameters provide essential information about respiratory mechanics, but cannot show how ventilation is distributed across different lung regions[1]. Regional collapse and overdistension may coexist, making it difficult to assess the effects of ventilation from global values alone[1, 2].

PulmoMap adds to these values with regional functional information at the bedside, helping you assess responses to changes in ventilation and positioning[1, 3].

All the benefits at a glance

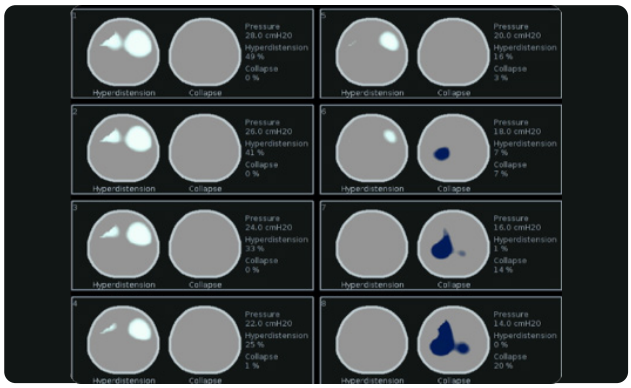
- ✓ The P/V Map workflow helps optimize lung volume with a fast recruitablility assessment and suggested optimal PEEP setting.
- ✓ The V/Q Tool helps identify regions with impaired gas exchange to guide targeted respiratory management.
- ✓ Repeatable bedside assessment and continuous, radiation-free monitoring reduce the need for CT imaging[2].
- ✓ High-temporal-resolution monitoring enables the early detection of changes in lung condition[2].
- ✓ Information from PulmoMap and the ventilator can be compared side by side.
- ✓ Use of the integrated HAMILTON-C6 flow sensor helps avoid breathing circuit disconnections and the resulting PEEP loss.

1 Scaramuzzo G. et al. Crit Care. 2024 Nov 19;28:377. | 2 Costa E. et al. Intensive Care Med. 2009 Mar 03;35:1132-1137.
3 Perier F. et al. American journal of Respiratory and Critical Care Medicine. 2020 Dec 01; 202:1713-1717.



PulmoMap

Your bedside window into lung function



P/V Map®

Combine the P/V Map with the P/V Tool on your HAMILTON-C6 to get a fast, guided workflow for optimizing lung volume and setting PEEP. It gives you valuable information on patient-specific lung heterogeneity, abnormal pleural pressures, and individual physiologic responses during PEEP changes. One maneuver fully assesses recruitability and suggests the optimal PEEP in under 60 seconds.



V/Q Tool

Seeing ventilation alone is not enough. The V/Q Tool shows you the regional distribution of pulmonary perfusion to complement the regional Ventilation Map, and combines both in a color-coded V/Q Coupling Map. Just a small saline bolus is needed for the perfusion measurement. Regional V/Q mismatches are visible at a glance, so you can make informed treatment decisions.



Neonatal

PulmoMap gives you continuous insights into regional lung ventilation for all patient groups, from adults right through to neonates. It enables you to detect changes in ventilation distribution early and can guide your ventilation strategy to help you protect even the most fragile of neonatal lungs.

Your modular solution for more flexibility

All the information at a glance

Side-by-side screens give you uncompromised visibility of EIT and ventilation data.

Modular solution

Flexible mounting to the standard rail on the left side of any HAMILTON-C6 means a smaller footprint around the bed.

Continuous workflow

The integrated HAMILTON-C6 flow sensor eliminates the need to disconnect the breathing circuit, preventing the associated loss of PEEP.

Always ready for use

PulmoMap works on all your HAMILTON-C6 ventilators without an option key.



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