

Option Smart Pulmonary View

Dräger Evita Infinity® V500 & Babylog® VN500:
The Smart Pulmonary View performs realtime visualization of pulmonary function data. By transforming data into useful visual information, the Smart Pulmonary View helps reduce the cognitive workload of ICU staff.



D-269-2010

- Visual representation of key data points in real time
- Intuitive anatomical graphic
- Easier cognitive realization

The Smart Pulmonary View performs real time visualization of pulmonary function data. By transforming data into useful visual information, the Smart Pulmonary View helps improve the cognitive realization of a patient's pulmonary status.

THE DATA RACE

Modern ICU or NICU areas constantly generate vast amounts of raw data. Prior to clinical decisions, this data must be interpreted. Combined with all of the tasks involved in running an ICU or NICU, physicians, nurses, and respiratory therapists alike have a tremendous workload to manage. The Smart Pulmonary View allows clinicians to use technology to transform critical data points into information that can be recognized at a glance.

MAKING SENSE OF THE NUMBERS

As with all ventilated patients in an ICU or NICU, the analysis of pulmonary mechanics plays a vital role. Until now, patient measurements such as compliance and

resistance were displayed as numeric data or in the form of a trended graph. The identification of these values changing for better or worse relied solely on the observation of a clinician.

THE VISUAL SOLUTION

A picture is truly worth more than a thousand words. The Smart Pulmonary View incorporates pulmonary function data into a visual representation of the respiratory system's key elements. Together with leading clinicians, Dräger has opened an intuitive new window to monitor a patient's respiratory status. The raw data has now become information which can be easily recognized and put to clinical use almost instantly.

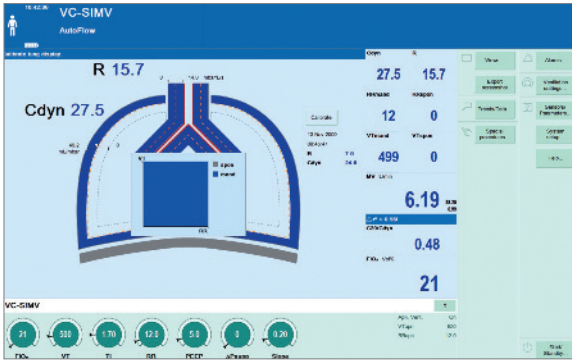
HOW SMART PULMONARY VIEW WORKS

The Smart Pulmonary View depicts changes in compliance by constantly changing the width of the pulmonary outline. The lower the compliance, the thicker the outline, the greater the compliance the thinner the outline. Resistance is displayed by changing the width of the airway branches as well. Spontaneous inspiratory efforts are also indicated by a moving depiction of a diaphragm.

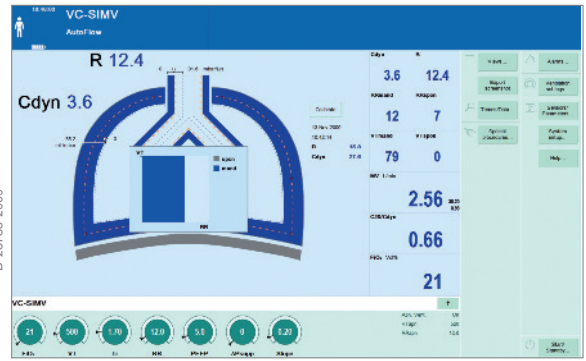


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Changes in Resistance are shown by changing the width of the airways; the higher the Resistance, the thicker the outline and vice versa.

Changes in Compliance by changing the width of the pulmonary outline; the lower the Compliance, the thicker the outline and vice versa.

This anatomical representation greatly facilitates the interpretation of the patient's respiratory status.

The comprehensive display of Smart Pulmonary View supports the evaluation of the patient's respiratory status by significantly reducing the cognitive demands placed on the clinician.

In addition to compliance, resistance, and spontaneous inspiratory efforts, the Smart Pulmonary View also shows the proportion of mandatory breaths to spontaneous breathing. This provides essential information regarding the quality and efficacy of spontaneous respiration.

TECHNICAL DATA

Measurement ranges

Compliance (C): 0-400 ml/mbar (or mL/cmH₂O)

Resistance (R): 0-300 mbar//sec (or cmH₂O/L/s)

ORDER INFORMATION

Option Smart Pulmonary View (factory installed)

8416400 (for V500), 8417400 (for VN500)

Option Smart Pulmonary View (retrofit kit)

8416200 (for V500), 8419200 (for VN500)

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