



AVA Adaptive Ventilatory Assist

The AVA mode is an adaptive closed loop mode that guarantees a minute volumen ventilation of the patient generating a ventilatory pattern with the minimal respiratory work.

Physiological Benefits

As main parameters, the operator must program only 2 values:

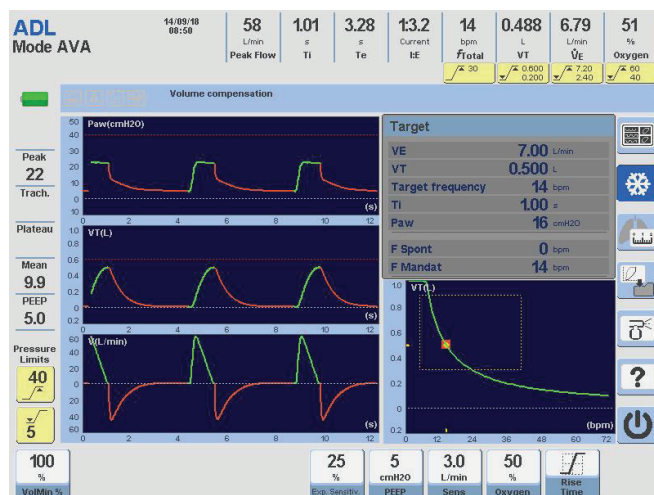
- 1) Ideal body weight of the patient, used to calculate the optimal minute volume.
- 2) The percentage of the calculated minute volume to be administered.

Then, the algorithm will calculate, automatically and in real time, the optimal breathing rate and the appropriate tidal volume to reach that volume per minute through the Otis equation for the minimal breathing performance.

The mode analyzes the patient's respiratory mechanics and expiratory time constant. Taking into account these data, it calculates the tidal volume and optimum frequency to get the ideal volume per minute.

The algorithm will never generate parameters out of the safety limits set out according to expert's standards, which is why it guarantees the protection of the patient, avoiding situations of hyperventilation, hypoventilation, air trapping or volutrauma.

The safety limits define a square of maximum and minimum limits of volume and breathing rate.



Uses and Application

The AVA mode also allows a smooth transition from controlled ventilation to completely spontaneous ventilation in an automated way.

*As of software version N11-01.15 / *Not available in all markets.

50 years of innovation and development in mechanical ventilators.

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