

DID YOU KNOW?



THE C20/C INDEX

What is it?

The C20/C index is a calculation of the compliance of the **last 20% of a breath in relation to the compliance of the entire breath.**

How is it measured?

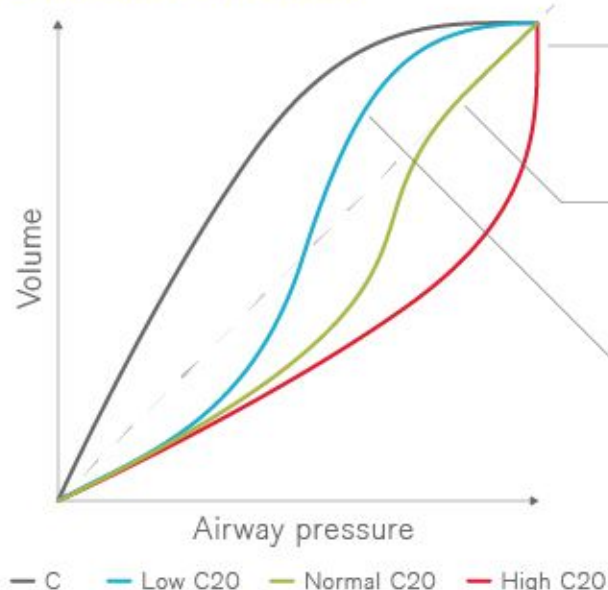
During a breath, **the ventilator determines continuously the pressure** applied and the resulting tidal volume. The compliance of the last 20% of a breath determined in this manner is set in proportion to the total compliance.

Why is it relevant?

C20 is the compliance that results when only the upper 20% of the applied pressure range is taken into account. **C20/Cstat under 0.8 may indicate overinflation of the lungs.**



Different C20/C ratios*



* Schematic illustration

C20/C >1 An increase of compliance at the end of the breath was detected. **Tidal recruitment** may be occurring.

C20/C =1 No change in compliance at the end of a breath could be detected. The lungs may not be overinflated, or tidal recruitment may not be occurring.

C20/C <1 A decrease of compliance at the end of the breath was detected. The lungs may be **overinflated**.

Why is it helpful in improving the outcome?

C20/C is a tool that allows to perform protective ventilation ► **reducing the risk of VALI (Ventilator Associated Lung Injury) and ARDS (Acute Respiratory Distress Syndrome)**, which may increase the mortality rate.