

Provide actionable insights into lung function



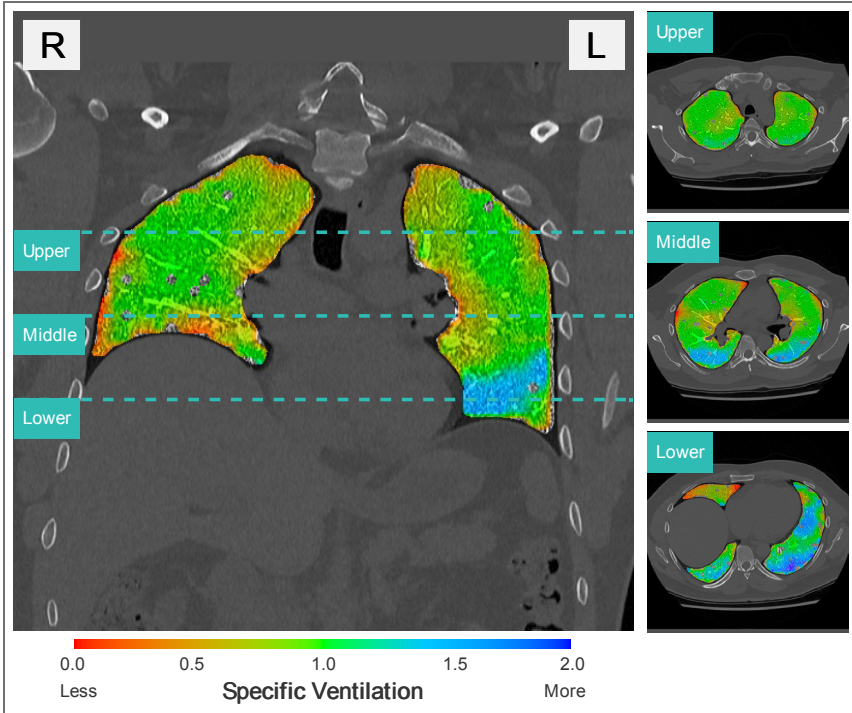
CT LVAS (Computed Tomography Lung Ventilation Analysis Software) is image processing technology that uses CT scans to provide detailed information about the lungs' function. CT LVAS provides quantification of regional lung ventilation, in an easy-to-read report that allows both lung structure and function to be assessed in one procedure. It enables clinicians to better characterise lung conditions and detect associated regional lung changes—without the use of contrast. CT LVAS also quantifies ventilation heterogeneity, which serves as an indicator of lung health. CT LVAS requires paired deep-inspiratory and expiratory breath-hold volumetric CTs, acquired in the supine position.

Highlights

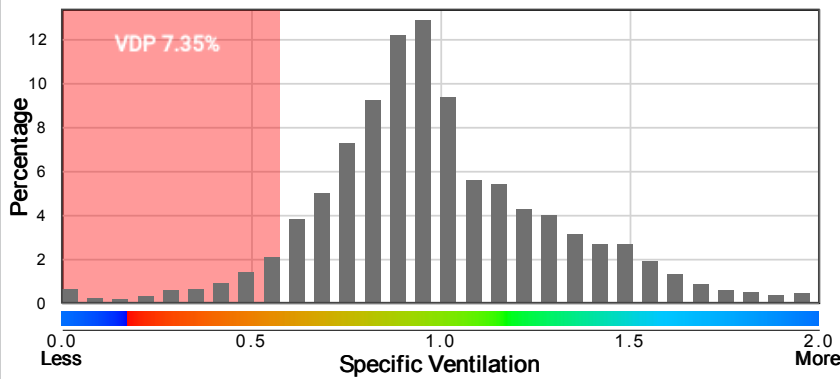
- Regional quantification of lung function, including Lung Volumes, Ventilation Heterogeneity (VH) and Ventilation Defect Percentage (VDP)
- Easy-to-read visualisation of regional lung ventilation
- Insights into lung function to better characterise and quantify respiratory conditions and symptoms
- Non-contrast

CT LVAS Ventilation Report

The CT scan input data is uploaded to 4DMedical's cloud-based ecosystem, where it is analysed and returned as the Ventilation Report back to the clinician. The CT LVAS Ventilation Report overlays a coloured image of regional ventilation data onto a patient's CT— providing a quick correlation between function and structure. The regional ventilation data is quantified as lung volume and regional lung function metrics for objective assessment.



The frequency distribution of regional specific ventilation measured across the entire lung at peak inspiration.



Inspiration Volume Expiration Volume

4.65 L

2.21 L

Change in Volume

2.44 L

Ventilation Heterogeneity

SMALL SCALE

TOTAL

LARGE SCALE

20.9

35.8

22.0

Regional Lung Function

- Specific Ventilation
- Ventilation Heterogeneity
- Ventilation Defect Percentage
- Regional Ventilation Visualisation Maps

Lung volumes*

- Inspiratory Volume
- Expiratory Volume
- Change in Volume

* Based on deep inspiratory and expiratory volumetric CTs