Whole-Body Plethysmography

Breathing Maneuvers

Parameter Description
- $s_{Raw}$ ($s_{Reff}$, $s_{Rtot}$, $s_{R0.5}$) Specific airway resistance
- $s_{Gaw} = s_{Raw}^{-1}$ Specific airway conductance
- $Raw$ ($Reff$, $Rtot$, $R0.5$) Airway resistance
- $Gaw = Raw^{-1}$ Airway conductance
- $TLC$ Total lung capacity
- $FRC_{pleth}$ Functional residual capacity
- $RV$ Residual volume
- $VT$ Tidal volume
- $BF$ Breathing frequency
- $IRV$ Inspiratory reserve volume
- $ERV$ Expiratory reserve volume
- $IC$ Inspiratory capacity
- $VC_{IN}$ Inspiratory vital capacity
- $VC_{EX}$ Expiratory vital capacity
- $FEV$ Forced expiratory volume in 1 s
- $FVC$ Forced vital capacity

Typical Curve Shapes in Health and Disease

Restriction

Healthy

Central Obstruction

Distribution Disorder

Elevated Diaphragm

Stenosis

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