



Normative values provided.

Adult & Pediatric

Pre/Post Testing Automated workflows.





MEASUREMENT PRINCIPLE:

OSCILLATOR TECHNOLOGY:

MEASUREMENT MODES:

PATIENT INTERFACE:

DIMENSIONS & WEIGHT:

MEASUREMENT DURATION:



OSCILLOMETRY

(PATENTED)

(FORCED OSCILLATION TECHNIQUE, FOT)

BREATHE-THROUGH VIBRATING MESH

AOS: PSEUDO-RANDOM NOISE

20 SEC (MIN.), USER ADJUSTABLE

BACTERIAL/VIRAL FILTER WITH INTEGRATED MOUTHPIECE

19 X 13 X 14 CM, 0.7 KG

MEETS AND EXCEEDS

ERJ 2003, 22: 1026-1041

(HANDHELD ONLY) 21 X 14 X 24 CM, 1.7 KG (HANDHELD & CRADLE)

3 REPETITIONS (AS PER GUIDELINE)

THOROSYS

Beyond Spirometry:

Try Oscillometry Now!

FAST, EASY & PORTABLE



MORE INFORMATION: WWW.THORASYS.COM

PERFORMANCE:

- 1 Al-Alwan et al., AJRCCM 2014
- 2 Usmani et al., RESPIRATORY MEDICINE 2016
- 3 Hirsh et al., AAAAI 2011
- 4 Galant et al., AAAAI 2017
- 5 Johnson et al., THORAX 2007
- 6 McNulty and Usmani, ECRJ 2014
- 7 Navanandan et al 2020
- 8 Cottee et al., 2021 APSR
- 9 Cho et al., 2020 Am J Respir Crit Care Med

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THORASYS

The Importance of Small Airways

Airwave Oscillometry provides information related to small airway function.

"The small airways are frequently involved early in the course of [asthma and COPD] diseases, with significant pathology demonstrable often before the onset of symptoms or changes in Spirometry and imaging."⁶

"Peripheral airway impairment may be clinically relevant at all levels of asthma severity and control." 4

Airwave Oscillometry Fundamentals

tremoflo[°] measurements are fast and easy. The patient just breathes quietly.

To assess respiratory function, the tremoflo® adds a gentle oscillatory wave to the patient's regular, quiet breathing.

A short measurement duration of only 20 to 30 seconds allows three repetitions within a couple of minutes, even in patients who have difficulty performing spirometry.

Outcomes

Summary of clinician interpretations per published studies ¹⁻⁵

Characteristic Patterns

A pair of two curves calculated from the raw data reflects the mechanical properties of the respiratory system in characteristic patterns.

Key Outcomes

Several key outcome parameters are then derived from the Resistance and Reactance curves.

Airwave Oscillometry Fundamentals





Actual Data

A simple green-to-red gauge scale clearly shows whether patients fall within or outside normative values that are available for pediatrics and adults.

Pre / Post Test in Asthma Patient



Test in COPD Patient



Expert Opinions

"Oscillometry is feasible, responsive, and safe in children with acute asthma exacerbations in the Emergency Department." ⁷

"FOT is useful either when added to Spirometry providing complementary mechanical information or when Spirometry cannot be measured, such as during the current COVID-19 pandemic." ⁸

"In a survey conducted at 3 months after lung transplant [...] patients reported a significantly higher satisfaction with Oscillometry compared with Spirometry and found Oscillometry to be significantly easier to perform than Spirometry." ⁹