

CHRONIC RESPIRATORY DISEASES:
**MORE THAN 80 MILLION AFFECTED
AND MANY MORE UNDIAGNOSED¹**



IT'S TIME TO **TAP** INTO THE NEXT GENERATION OF RESPIRATORY CARE

1. Chronic respiratory diseases: more than 80 million affected and many more undiagnosed, warns new WHO and European Respiratory Society report. WHO.

Available on: <https://www.who.int/europe/news/item/12-06-2025-chronic-respiratorydiseases--more-than-80-million-affected-and-manymore-undiagnosed--warnsnew-who-and-europeanrespiratory-society-report>

INTRODUCING

Impedance Measurement Device



Easy Breathing, Clinically Proven



INNOVATION YOU CAN TRUST, **PERFORMANCE** YOU CAN RELY ON



TRUSTED

Built on USFDA trusted technology and supported by Indian scientific evidence^{2,5,#}



ASSURED

Reliable performance with simplified report, and dependable service support



PORTABLE

Compact, lightweight design enabling seamless use across clinical settings

TAP INTO THE NEXT GENERATION OF OSCILLOMETRY

Impedance Measurement Device



Easy Breathing, Clinically Proven

US-FDA TRUSTED TECHNOLOGY

DESIGNED

FOR

DIVERSE RESPIRATORY NEEDS



Paediatric & Elderly
Patients



Frail/Comorbid
Patients



Symptomatic With
Normal Spirometry⁷



Small Airway
Dysfunction⁸

THE RIGHT INSIGHT FOR THE RIGHT PATIENT

Why Choose

Impedance Measurement Device



Easy Breathing, Clinically Proven



Advanced Technology for Point-of-Care Testing

Ease-of-use for Clinicians, **Tidal Breathing** for Patient Comfort



India-Specific Reference Values^{2,5,#}

Based on validated regression equations



Z-Score Driven Clinical Insights⁷

Results include Pre- and Post-Bronchodilator Tests



Compact & Portable

Easy to use across different clinical settings



Efficient Integration

Enables efficient clinical decision-making



User-Friendly Interface

Ease of operation with minimal training



Accurate Assessment

Accurate results with intuitive reporting

DESIGN FOR INDIAN PRACTICE

Interpreting Confidence with

Impedance Measurement Device



Easy Breathing, Clinically Proven

Powered by **Z-Score**-based interpretation*

Simplified Clinical Report

Patient:

Gender		Patient ID	
Height		Smoking History	
Weight			
Age		Operator	
Ethnicity		Reference Equation	

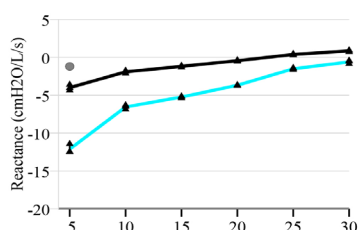
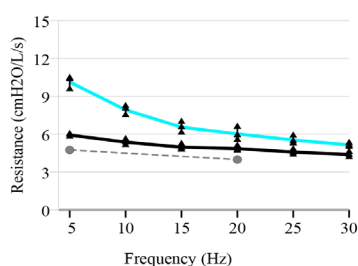
Session ID:

Pre-Bronchodilator Post-Bronchodilator

Parameter	Reference	Pre-test	Pre-test Zscore	Pre-test as %predicted	Post-test	Post-test Zscore	Post-test as %predicted	Pre-Post [ERS Criteria]
R5 (cmH ₂ O/L/s)	4.75	10.13	5.43	213%	5.93	1.20	125%	-41% [<-40%]
R19 (cmH ₂ O/L/s)	3.99	6.11	2.84	153%	4.88	1.20	122%	-20% [-]
R5-R19 (cmH ₂ O/L/s)	0.74	4.03	6.25	-	1.05	0.60	-	-
AX (cmH ₂ O/L)	n/a	119.96*	n/a	n/a	28.19	n/a	n/a	-77% [<-80%]
X5 (cmH ₂ O/L/s)	-1.20	-12.13	-16.91	1010%	-4.00	-4.33	333%	67% [>50%]

***: Extrapolated parameter

n/a: The parameter is not available in the reference equation selected



Comments:

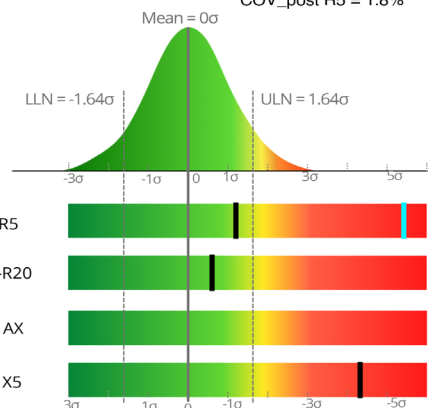
Frequency (Hz)

Pre-test Z-score is without Brx and similarly for post test.

Average Coherence: 0.95

COV_pre R5 = 4.9%

COV_post R5 = 1.8%



Axis reversed for X5 as it is a negative value

Histogram showing population data from reference equation

EASY TO READ EASY TO ACT

Impedance Measurement Device



Easy Breathing, Clinically Proven

Validated Through Clinical Study*

Randomized, Open Label, Comparative, Cross-over, Multicentre Study To Compare Cipla's Oscillometer Device With Oscillometer A In Healthy Participants, Asthmatic And COPD Patients.

Objective:

To compare Ciposcillo® with Oscillometer A in healthy participants, asthmatic and COPD patients as well as to evaluate ease of use of Ciposcillo®.

Methodology:

A randomised multi centre study included 152 participants-Asthmatic (n=51) COPD (n= 50) and healthy participants (n=51).

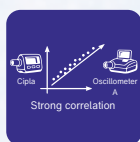
Evaluations:

Impedance parameters (R5, R20, R5-R20, AX and X5) and ease of use (based on questionnaire).

Key Results:



Strong correlation in terms of the impedance (resistance and reactance) parameters in the overall population.



Strong to very strong correlation between for Oscillometry readings recorded by Ciposcillo® vs. Oscillometer A.



R5 and Area of reactance (AX) were not significantly different by Ciposcillo® vs. Oscillometer A.



Ciposcillo® was shown **easy-to-use during the study.**

EVIDENCE THAT INSPIRES CLINICAL CONFIDENCE

Dedicated Support Assured Performance

Impedance Measurement Device



Easy Breathing, Clinically Proven

Our commitment extends beyond innovation.

With dedicated service support and training, we ensure clinicians can confidently integrate Ciposcillo® into their practice.



PARTNERING YOU AT EVERY STEP

Impedance Measurement Device



Easy Breathing, Clinically Proven

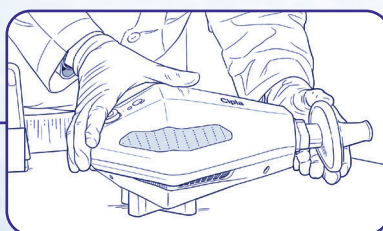
How to use Ciposillo® ?**



Ciposillo

1. Open the Ciposillo® App

Add a new patient or select an existing patient from View Summary, then tap "Take a New Test."



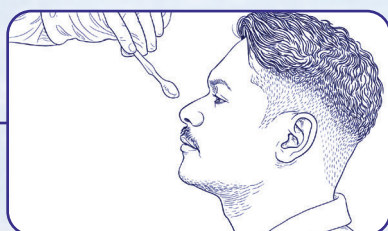
2. Connect the mouthpiece

Connect the mouthpiece to the device.



3. Position the Patient

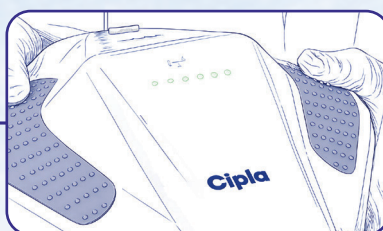
Ask the patient to sit upright with chin slightly raised (~30°), hold the device properly, seal the mouthpiece, and breathe normally for 12 breathing cycles.



4. Place the nose clip

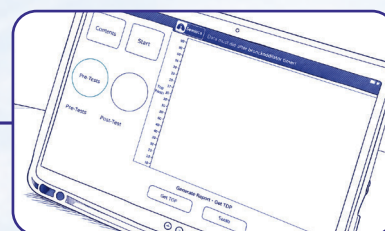
Place the nose clip on the patient, and switch on the device.

When all LEDs turn green and you hear "Device Ready," the device is ready.



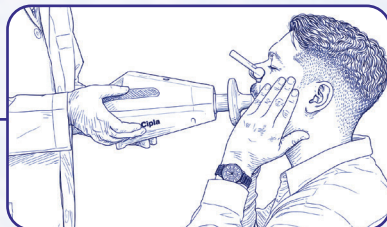
5. Perform the Pre-Tests

After breathing stabilizes, oscillations begin automatically. When LEDs turn blue, remove the device and perform 3 Pre-tests.



6. Add Bronchodilator Timer

Click the Watch icon, enter the bronchodilator name and time, then press "Add Timer" and wait until the timer ends.



7. Perform the Post-Tests

Reconnect the device, toggle to Post-Test, and perform 3 Post-tests in the same manner.



8. Generate the Report

Tap "Get Report." The summary screenshot is saved in the gallery, and the PDF report is sent to the registered email ID

Ciposillo® also supports testing with the help of a Mounting Stand, enabling hands-free use

SEAMLESS TESTING EXPERIENCE

**As per Ciposillo User Manual

Technical Specifications[^]



Weight (Approx.)	1 Kg
Size (Approx.)	255 × 225 × 140 mm
Model	Impedance Measurement Device – Firmware Rev. 1.4
Battery Life	100 tests per full charge (60 seconds per test)
Servicing	Every 2 years or 10000 tests, whichever comes first, by an authorized provider of Cipla Limited
Wireless Standard	Bluetooth 4.2
Wireless Frequency Range	2.4 GHz ~ 2.5 GHz
Power Supply	3.7V DC 5200mAh LiPoly battery
Charging Supply	5.0V DC 750mA
Accuracy for impedance measurement	90%
Flow Measurement Accuracy	95%
Flow Resolution	< 1 ml/s
Device Resistance	1.0 cmH ₂ O/L/s
Standards	IEC 60601-1; IEC 60601-1-2; IEC 60601-1-11; ISO 18562-2; ISO 18562-3
Usage: Single-use / Reusable	<ul style="list-style-type: none"> · Impedance Measurement Device (IMD/Ciposcillo®) – Main Unit: Multi-patient, reusable · Impedance Measurement Device (IMD/Ciposcillo®) – Mouthpiece: Single patient, single-use · Nose clip (user-provided): Single patient, single-use
External Devices	Clinical use: Android tablet running version 8 and above with 8" screen and 2GB RAM

ADVANCED ENGINEERING

BEHIND EVERY MEASUREMENT



Read user manual carefully before using



Prescription Use Only



Keep Dry



Do not dispose of in trash



BF Device type applied part

[^]As per Ciposcillo Information For Use

Impedance Measurement Device



Easy Breathing, Clinically Proven

Advancing the Future of AIRWAY ASSESSMENT

With globally trusted oscillometry technology, advanced engineering, and seamless portability, our device brings precision to respiratory assessment closer to everyday clinical practice.

Enables accurate, effortless respiratory assessment for routine clinical use.



**Advanced Innovation.
Portable Precision.
Clinical Confidence.**

Manufactured by:

Cognita Labs, LLC

700 N Main St. Ste C1 Santa Ana CA 92701,
Country: United States
Tel: 1855-348-8633
FAX: 1855-348-8633
E-Mail: info@cognitalabs.com

Imported & Marketed by:

Cipla Ltd.

Bldg C, Survey No. 11/5, H.No. 1074C
All India Logistics Park, Sawad Rd., Lonad
Tal. Bhiwandi - 421302, Thane (Z5) Maharashtra, India

Tel: 022-24826000 | Fax: 022-24826120 | Phone: 1800 2020 060
Support Email: crm.support@cipla.com
Import License No.: IMP/MD/2025/000672

For Full Demonstration



References:

2. Sarkar S, et al. Cureus. 2023;15(10):e47935., 3. Krishnan B, et al. IJCMCR. 2025;52(1)-3., 4. Singh P, et al. Medical Journal Armed Forces India. 2025;81(2):193-8., 5. Gupta N, et al. Karnataka Paediatr J 2020;35(2):79-87., 6. Ciposillo Information For Use., 7. Kaminsky DA, et al. European respiratory review. 2022;31(163), 8. King, GG., et al. European Respiratory Journal. 2020;55.2., 9. Brashier, et al. Breathe. 2015;11.1: 57-65., 10. Liang, Xiaolin, et al. ERJ open research 8.4 (2022), 11. Salvi S, et al. Am J Respir Crit Care Med. 2024;209(10):1281.

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In case of technical support or device related queries, please reach us at: customersupport.dx@cipla.com