

**NUVOAIR HOME  
SPIROMETRY  
DEMONSTRATES  
PERFECT CONCORDANCE  
WITH CONVENTIONAL  
SPIROMETRY**

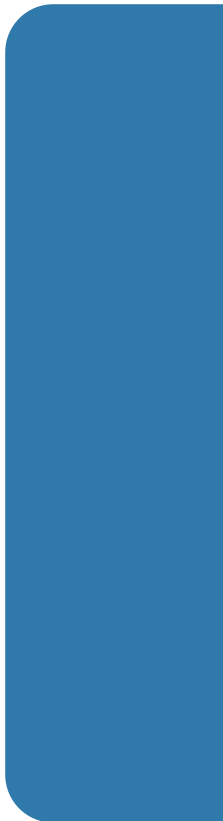
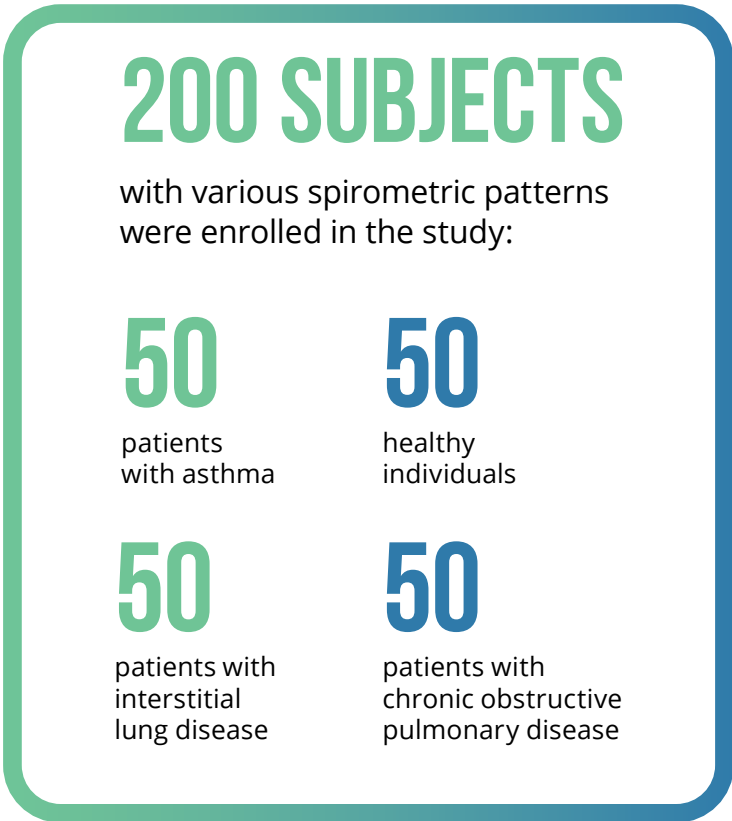
IN MULTIPLE RESPIRATORY DISEASES

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**A study was conducted at the outpatient clinic of the Respiratory Medicine Department of the University Hospital of Ioannina, Greece, to assess the accuracy and validity of measurements from the NuvoAir Air Next spirometer in comparison to those obtained with a conventional desktop spirometer.**

# DETAILS





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## ALL SUBJECTS

performed spirometry with both the conventional desktop MIR Spirolab spirometer and the Air Next spirometer.

## THE DESKTOP SPIROMETER

was calibrated according to the manufacturer's manual; AirNext does not need calibration and instead used pre-calibrated single-use turbines.

## THE ORDER

in which the spirometers were used was randomized to avoid any bias.

## ALL MEASUREMENTS

were carried out by trained personnel in accordance with American Thoracic Society and European Respiratory Society guidelines.

*These metrics were recorded from each spirometry: FEV1 (absolute value in L), FEV1% predicted, FVC (absolute value in L), FVC% predicted, FEV1/FVC ratio, PEF (absolute value in L/s), MEF25% (absolute value in L/s), MEF50% (absolute value in L/s), MEF75% (absolute value in L/s), FEV25-75% (absolute value in L/s). Predicted values being based on the Global Lung Initiative.*

# RESULTS

## FOR THE KEY PARAMETERS

in the interpretation of spirometry, i.e. FEV1, FVC, FEV1/FVC and FEF25-75%, Pearson correlation and Interclass Correlation Coefficient were greater than 0.94, demonstrating perfect concordance between the conventional desktop spirometer and the Air Next spirometer.

The data support the use of Air Next as a reliable spirometer for the screening and diagnosis of various spirometric patterns.



# TAKEAWAY

With the NuvoAir Air Next spirometer, you can give patients the exceptional convenience of portable Bluetooth® spirometry without compromising on accuracy.

Validation of the portable Bluetooth® Air Next spirometer in patients with different respiratory diseases

BMC | Respiratory Research

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