



Research Study Confirms AirSonea's Ability to Reliably Detect Asthma Wheezing

Monday 25 July 2016: Respiri has achieved a major milestone with an independently run research study, conducted by the University of Chicago, confirming that the AirSonea® day device can reliably detect wheezing in subjects.

The overall percentage agreement between a panel of certified pulmonary physicians and our AirSonea technology for the presence or absence of wheeze was an impressive 85%.

The research study was conducted by a team led by the study principal investigator, Edward Naureckas MD, Professor of Medicine at the University of Chicago. In the study, breathing sound files recorded by AirSonea were collected from diagnosed asthmatics and diagnosed COPD (Chronic Obstructive Pulmonary Disease) wheezing subjects. Breath sounds were also collected from non-wheezing subjects. One hundred and fifty breath-sound recordings were subsequently assessed by Naureckas and four of his fellow certified pulmonary physicians.

The following table summarises the key findings:

Accuracy	Overall Agreement related to physician consensus	85.3%
Sensitivity	AirSonea detection of CABS (Inc. wheeze) related to physician consensus	79.2%
Specificity	AirSonea detection of no CABS (normal breath sounds) related to physician consensus	91.0%

* CABS Continuous Adventitious Breath Sounds include Wheeze, Whistles, Rhonchi and mixed CABS

Further, the results indicated that the device can not only detect wheezing in long periods of recording, but also in short periods of recording, as reflected by a single breath cycle of inspiration and expiration.

Respiri Chairman, Leon L'Huillier, described the results as a significant achievement for the business. "The results of the independent research study confirm the ability of our smartphone enabled technology to detect and measure wheeze. This will help families living with Asthma and is an important step in our commercialisation strategy."

For and on behalf of the Board;

A handwritten signature in black ink, appearing to be "Peter Vaughan".

Peter Vaughan
Company Secretary

Ph: 1800 476 632