

Medical

A COPD screening device reporting FEV₁ & 'Lung Age'

Chronic Obstructive Pulmonary Disease (COPD) is the fourth leading cause of death worldwide according to the World Health Organisation and it is estimated that it will become the third leading cause of mortality by 2020¹. COPD is often undiagnosed in its early stages, especially in smokers, who are most at risk and as a result not receiving treatment.

Since early detection and treatment of COPD can positively influence the disease course, it is important to screen those patients at risk. The PulmoLife is the ideal tool to use as a quick check of lung function to highlight signs of disease as early as possible.



Actual Size



Features

- Measures and displays FEV₁ and FEV₁% predicted
- 'Lung Age' Interpretation
- Quick and Easy to use
- Large graphical display
- Easy clean turbine
- Step-by-step screening instructions
- Robust storage pouch
- Customisable

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Simple and easy to use the PulmoLife offers a practical solution for COPD testing in adult smokers. A quick test using the PulmoLife measures and shows patients' FEV₁ and FEV₁% predicted results² on its high visibility display. FEV₁ is strongly recommended as the measurement of choice in COPD screening and the percentage of the result against predicted values can be used to help determine the level of severity of disease³.

The PulmoLife then uses these results to calculate and display an optional 'Lung Age' estimation⁴. This is an equivalent 'Lung Age' based upon the FEV₁% predicted results and can be used to show smokers the physical damage caused by smoking and encouraging smoking cessation. Smokers are at the greatest risk of developing COPD and decline in lung function in susceptible smokers has been shown to be twice that of non-smokers⁵.



PulmoLife Cat. No. PL10

Suitable for

- FEV₁ testing programmes
- Identification of early signs of COPD in smokers over 35
- Encouraging susceptible smoker to quit

Specifications

Transducer	Digital Volume Transducer
Resolution	0.01L
Accuracy	+/-3% To ATS/ERS Standardisation of Spirometry 2005
Volume Range	0 - 8 L As per ATS/ERS recommendations
Flow Range	0-14 L/s As per ATS/ERS recommendations
Predicted Values	1) ECCS 2) NHANES III 3) Asian (Chinese)
Display	Custom Liquid Crystal
Power Supply	3V Lithium Ion Coin Cell Battery
Dimension	131 x 59 x 38mm
Weight	Unit only: 96g Packed: 260g
Operating Temperature	0° to +40° C
Operating Humidity	30% to 90% RH
Storage Temperature	-20° to +70° C
Storage Humidity	10% to 90% RH

Bibliography

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- 3) NICE COPD Guidelines 2004, Thorax 2004; 59 (suppl 1):I-232
- 4) Morris JF, Temple W. Spirometric 'Lung Age' estimation for motivating smoking cessation. Preventative Medicine, 1995; 14 655-662
- 5) Fletcher C, Peto R. BMJ 1977; 1: 1645-1648



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