

Meeting an unmet need...

Excess mucus plays a significant role in COPD progression



Daily Symptoms

Breathlessness, persistent cough, and ultimately an inability to perform daily task results in poor quality of life

Infections

Pulmonary infections are associated with 50% of COPD hospital admissions and higher mortality rates²

Exacerbations

Chronic cough and sputum production has been associated with premature death and increased occurrence of COPD exacerbations²

Mortality

54% of deaths occurred in patients exhibiting mucus hypersecretion versus 28% without mucus hypersecretion³

MUCUS CLEARANCE DEVICE

For your patient with **EXCESS MUCUS**

- Chronic Bronchitis
- Chronic Cough
- Breathlessness
- Recurring lung infections

Aerobika* OPEP Device is a drug-free, hand-held and easy-to-use device. When the patient exhales through the device, intermittent resistance creates Oscillating Positive Expiratory Pressure (OPEP), which mobilizes and assists mucociliary clearance to the upper airways where it can be coughed out.

Aerobika* OPEP Device was developed by Trudell Medical International who developed world-renowned AeroChamber. Aerobika* OPEP Device has earned top Gold at the Medical Design Excellence Awards (MDEA) 2014.

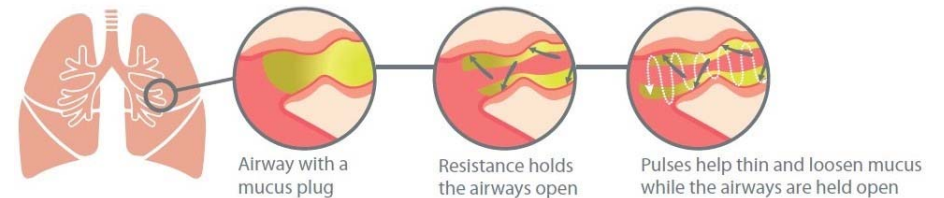
Recommend



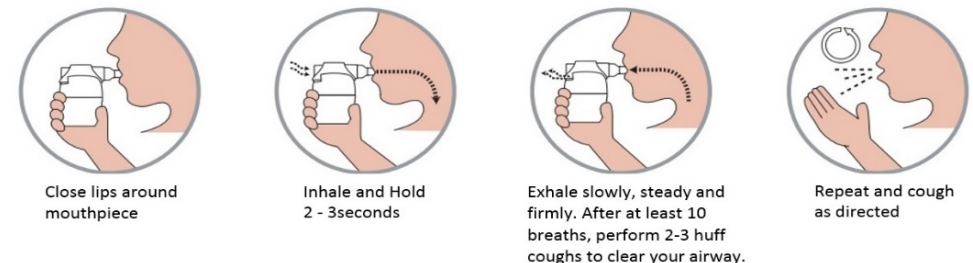
- Combined Aerobika* OPEP Device and Nebulizer treatment reduce overall therapy time which improve compliance.
- Aerobika* OPEP Device helps COPD, Bronchitis, Bronchiectasis, Cystic Fibrosis, Postoperative Pulmonary Complication (PPC) patients breathe easier and live better by addressing the unmet need of airway clearance.

Backed by clinical studies. Proven by living better.

www.aerobikaopep.com



Recommended treatment is 2 times a day for 10 minutes. Increase to 3-4 times per day if producing a lot mucus.



Breathe easier, live better

Works with the lungs to help loosen and remove mucus build-up



The **Aerobika**® OPEP device helps COPD and Bronchiectasis patients breathe easier and live better by addressing the unmet need of mucus clearance.

Its unique pressure-oscillation dynamic delivers:¹⁵

Easier mucus clearance

Ease in Bringing Up Sputum ($p < 0.0001$)



Decreased cough frequency

Cough Frequency ($p = 0.009$)

Reduced breathlessness

Dyspnea ($p = 0.04$)

Increased exercise tolerance

6 Minute Walk Distance ($p = 0.02$)



Improved quality of life

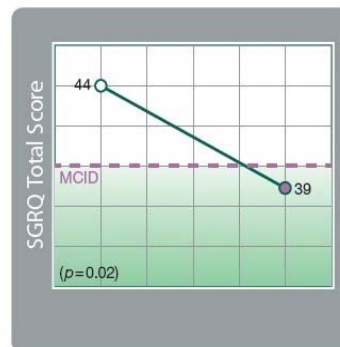
St. George's Respiratory Questionnaire Total ($p = 0.02$)



Significant and clinically meaningful improvement in quality of life¹⁵

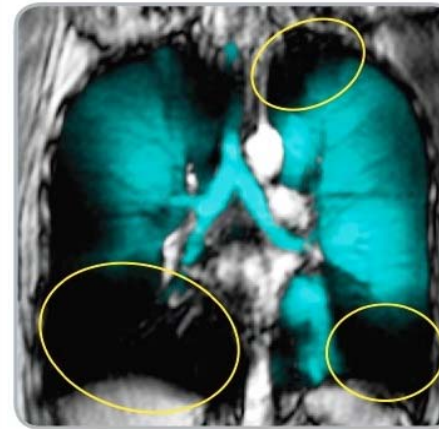
Change in overall health status

- ▶ 5 point improvement
- ▶ Greater than the minimum clinically important difference
- ▶ Results after only 3 weeks using the **Aerobika**® OPEP device

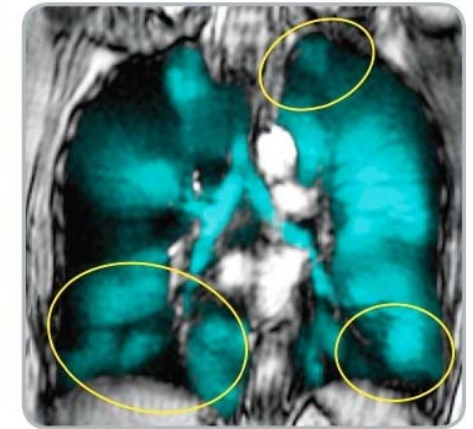


MCID = Minimum Clinically Important Difference (n=28)

Clinical findings validated by cutting edge ³He MRI Imaging¹⁵



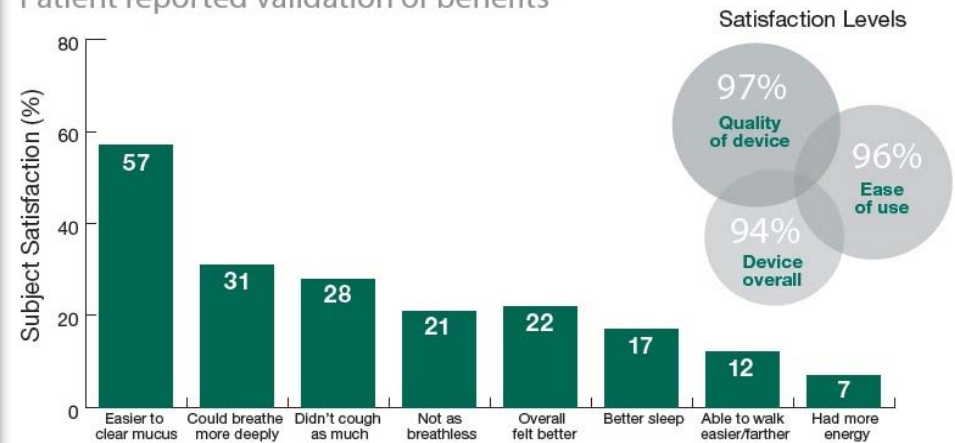
Pre-Aerobika® OPEP



Post-Aerobika® OPEP

▶ Teal colour and intensity show areas with gas distribution. Yellow circles represent areas of greatest change after 3 weeks of **Aerobika**® OPEP device use.

Patient reported validation of benefits¹⁶



▶ Patients report high satisfaction and benefits following treatment (n=506)

▶ 97% will continue to use this device

¹⁵Tesfaygi Y et al. Clinical and Applied Immunology Reviews 2006;6(1):21-36.

¹⁶Burgel PR, Martin C. European Respiratory Review 2010;19(116):94-96.

¹⁷Prescott E et al. European Respiratory Journal 1995;8(8):1333-1338.

¹⁸Perry, RJ, Smalldone GC. Journal of Aerosol Medicine 1990;3(3):187-196.

¹⁹Hogg JC et al. American Journal of Respiratory & Critical Care Medicine 2007;176(5):454.

²⁰Burgel PR et al. European Respiratory Journal 2004;24(4):594-600.

²¹Ramos FL et al. International Journal of COPD 2014;9:139-150.

²²Pavia D et al. European journal of respiratory disease 1983;128(Suppl):304.

²³Hasani A et al. CHEST 2004;125(5):1726-1734.

²⁴Baramiuk JN, Zheng Y. Clinical & Experimental Allergy Reviews 2010;10(1):12-19.

²⁵Rogers D, Barnes PJ. Annals of medicine 2006;38(2):116-125.

²⁶Salathe M et al. CHEST 1996;119(4):1048-1057.

²⁷Poole PJ. International Journal of Chronic Obstructive Pulmonary Disease 2006;1(2):123.

²⁸Rogers DF. Pulmonary Pharmacology & Therapeutics 2005;18(1):1-8.

²⁹Svenningsen et al. Presented at ERS 2014.

³⁰Patient satisfaction survey demonstrated result of patient reported outcomes in study, n=506.

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