

## HYPERTONIC SALINE 7%

**Hypertonic saline creates an osmotic pressure that increases the volume of airway surface liquid, restore mucus clearance, and improve lung function.**

Recent clinical studies in patients with cystic fibrosis, have shown that inhalation of hypertonic saline produced a sustained acceleration of mucus clearance and improved lung function. This treatment improves sputum viscosity and ease expectoration.

**The advantages of treatment with 7% hypertonic saline in lung diseases are:**

- Improving lung function
- Stimulate mucociliary clearance
- Improving quality of life
- Decreases hospital admissions
- Safe
- Inexpensive
- Effective treatment of moderately and severe lung diseases

Presentation: 24 single use containers of 5ml.

Regulatory Status: CE Class IIa Sterile Medical Device.



### References:

- (1) Nebulised 7% hypertonic saline improves lung function and quality of life in bronchiectasis Fiona Kellett a,\*, Niven M. Robert Respiratory Medicine (2011) 105, 1831e1835.
- (2) H Pelletier AJ, Mansbach JM, Camargo CA Jr. Direct medical costs of bronchiolitis hospitalizations in the United States. Pediatrics. 2006;118(6):2418-2423.
- (3) Shay DK, Holman RC, Newman RD, Liu LL, Stout JW, Anderson LJ. Bronchiolitis-associated hospitalizations among US children, 1980-1996. JAMA. 1999;282(15):1440-1446.
- (4) Viswanathan M, King VJ, Bordley C, et al. Management of bronchiolitis in infants and children. Evid Rep Technol Assess (Summ). 2003;69(69):1-
- (5) Pavia D, Thomson ML, Clarke SW. Enhanced clearance of secretions from the human lung after the administration of hypertonic saline aerosol. Am Rev Respir Dis 1978; 117: 199-203.
- (6) Robinson M, Regnis JA, Bailey DL, King M, Bautovich GJ, Bye PTP. Effect of hypertonic saline, amiloride and cough on mucociliary clearance in patients with cystic fibrosis. A J Respir Crit Care Med 1996; 153.
- (7) Smith CM. The role of osmotic stimuli in the provocation of asthma. PhD Thesis 1988, University of Sydney, Australia.
- (8) Nebulised 7% hypertonic saline improves lung function and quality of life in bronchiectasis Fiona Kellett a,\*, Niven M. Robert Respiratory Medicine (2011) 105, 1831e1835.

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