Patients benefit from nebuliser therapy due to:

**Alleviation of breathing difficulties**

“A nebuliser provides greater relief in breathing than other inhalers.”

Barta et al. 2002 [1]

**Chance to improve quality of life**

“Most patients experienced a clinically significant improvement in their quality of life with nebuliser treatment.”

Santana et al. 2006 [2]

**Wide range of drug options**

“...with 29 COPD patients with chronically yellow sputum who had inhaled tobramycin for several years, there was a reduction in hospital admissions ...”

Köhler 2007 [3]

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Treatment with nebulisers conforms to the following guidelines:

- Standards for the Diagnosis and Management of Patients with COPD. ATS / ERS, 2004

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**PARI TurboBOY® SX**

Quick, Easy and Versatile!

- Short inhalation times
- Highly efficient drug delivery
- Suitable for all commercially available medications

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**Fig.: Change in the subjective feeling of well-being with nebuliser treatment compared with other inhalers (ipratropium bromide and salbutamol).**

**Sources:**
The "Respirable Drug Delivery Rate" (RDDR) is a measure of the therapeutically useful quantity of medication that can be deposited in the lung in a given unit of time.

Faster treatments
More drug delivered during inspiration
Less drug wasted during expiration

More Drug, More Quickly – breath enhanced nebulisers

- Efficient, long-term nebuliser with integrated valve system for economical drug usage
- Easy to assemble, use and clean
- No special inhalation technique needed
- High quality management: 100% testing of all LC SPRINT® nebulisers

PARI LC SPRINT® nebuliser

- Powerful Compressor for short inhalation times – under 5 minutes!
- for 2.5 ml Salbutamol

Advantages of nebuliser therapy

Respiratory Consultants rely on jet nebuliser therapy for their patients and appreciate the following advantages:

- Time-saving combination of physiotherapy and inhalation therapy
- Better mucus clearance
- Avoidance of a bronchial collapse

PARI PEP® S-System (optional accessory) with adjustable exhalation resistance for

- Increased moisture and easy handling during inhalation were considered by Respiratory Consultants to be significant advantages of inhalation treatment with a nebuliser. Source: PARI survey of 133 Respiratory Consultants

![Graph showing RDDR for different nebuliser systems](image)

**Aerosol characteristics**

- **Total Output Rate:** 600 mg/min
- **MMD:** 3.5 µm
- **Mass percentage < 5 µm:** 67%

Measured with the Malvern MasterSizer X (calculated according to Fraunhofer-model) at 23 °C and 50 % relative humidity.
Nebulised medium: 0.9 % NaCl (5 ml).
Inspiratory flow: 20 l/min.
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The right choice for COPD

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