

The right choice  
for COPD

More than 100 years of expertise and innovation  
High quality products "Made in Germany"

**PARI TurboBOY® SX**  
Quick, Easy and Versatile!

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



PARI TurboBOY® SX

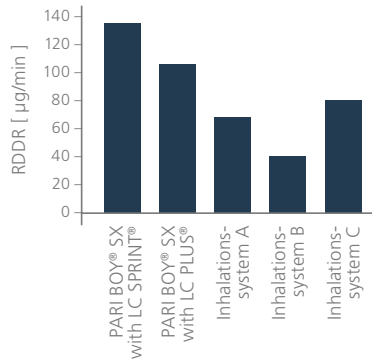
Specialists in effective inhalation



# PARI TurboBOY® SX

Quick, Easy and Versatile!

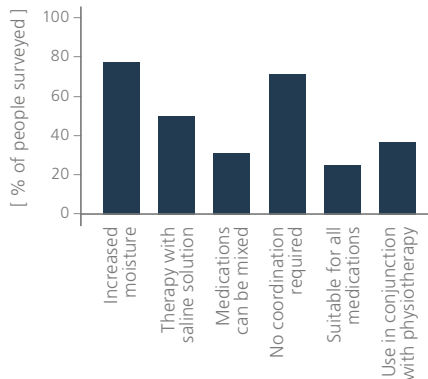
Highly effective due to high deposition rate per minute of salbutamol in the lungs



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

## Advantages of nebuliser therapy

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



**Figure:** 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

Powerful Compressor for short inhalation times – under 5 minutes!

for 2.5 ml Salbutamol

**NEW!**



**PARI TurboBOY® SX**  
Order no.: 085G3201

### Aerosol characteristics

**Total Output Rate:** 600 mg/min

**MMD:** 3.5 µm

**Mass percentage < 5 µm:** 67%

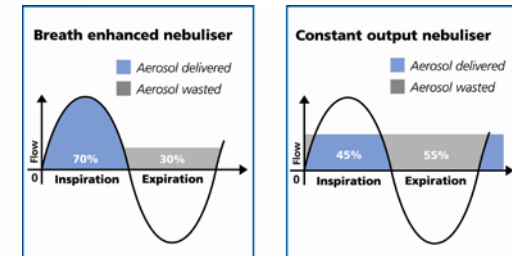
Measured with the Malvern MasterSizer X (calculated according to Fraunhofer-model) at 23 °C and 50 % relative humidity. Nebulised medium: 0.9 % NaCl (5 ml). Inspiratory flow 20 l/min.

## PARI LC SPRINT® nebuliser

- 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

More Drug, More Quickly – breath enhanced nebulisers

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



## PARI PEP® S-System

(optional accessory) with adjustable exhalation resistance for

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



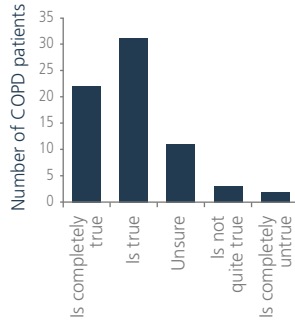
Order no.: 018G4000

# 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<sup>[1]</sup>



## 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<sup>[2]</sup>

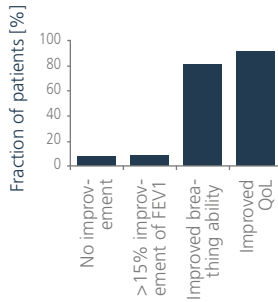
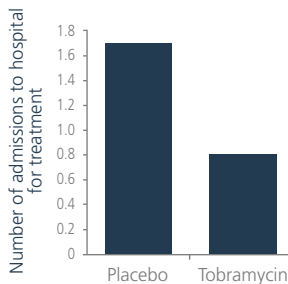


Fig.: Change in the subjective feeling of well-being with nebuliser treatment compared with other inhalers (ipratropium bromide and salbutamol)

## 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<sup>[3]</sup>



Sources:

- [1] Barta S. K., et al. *Respir Med.* 2002; 96(6):375
- [2] Santana S., et al. *ERS congress.* 2006: abstract E469
- [3] Köhler D. *Med Klin (Munich).* 2007;102(11):904

Treatment with nebulisers conforms to the following guidelines:

- NICE Clinical Guideline 101 – Chronic Obstructive Pulmonary Disease. Management of COPD in adults in primary and secondary care (partial update to NICE Clinical Guideline 12). June 2010
- Standards for the Diagnosis and Management of Patients with COPD. ATS / ERS, 2004
- British Thoracic Society Guideline for non-CF bronchiectasis. *Thorax* (Volume 65, Supplement 1) July 2010.

## PARI Service Centre

+49 (0) 81 51 279 – 279

Give us a ring...

PARI GmbH

Spezialisten für effektive Inhalation

Moosstraße 3 · 82319 Starnberg

Telefon +49 (0) 81 51 279 – 0

Fax +49 (0) 81 51 279 – 101

You can find PARI on the Internet:

E-Mail: [info@pari.de](mailto:info@pari.de) · [www.pari.de](http://www.pari.de)



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Item-No. 085G3201

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