

PARI Pharma
Advancing Aerosol Therapies



Drug Testing with eFlow[®]rapid

eFlow[®]rapid

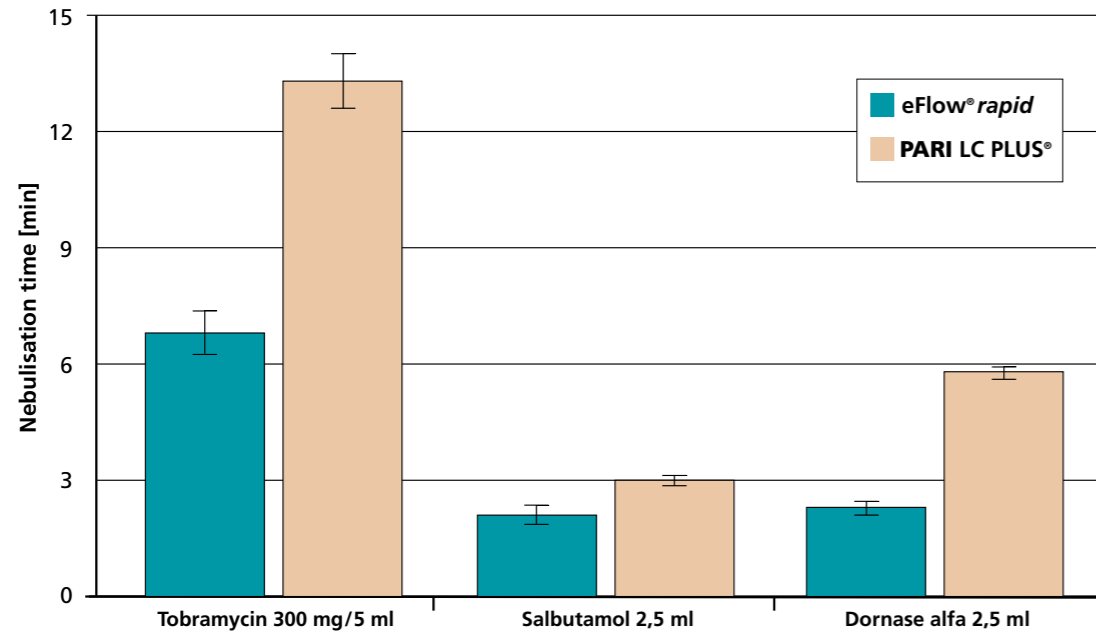


Results using Tobramycin 300 mg/5 ml

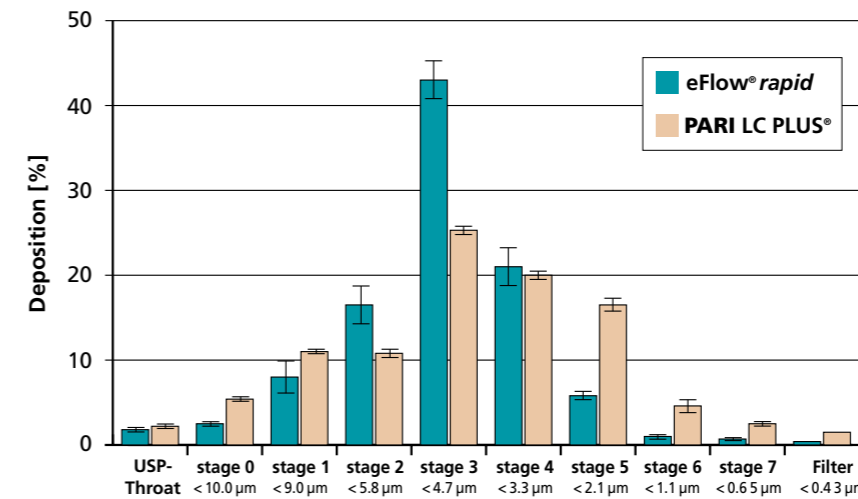
S. Seemann, A. Schmitt, R. Waldner, M. Hug, M. Knoch: Improving aerosol drug delivery in CF therapy. European Cystic Fibrosis Society, 28th European Cystic Fibrosis Conference, Crete, Greece, June 22-25, 2005.



Reduces Nebulisation Time by 50% (in vitro).



Deposition in the Andersen Cascade Impactor: Tobramycin 300 mg/5 ml*

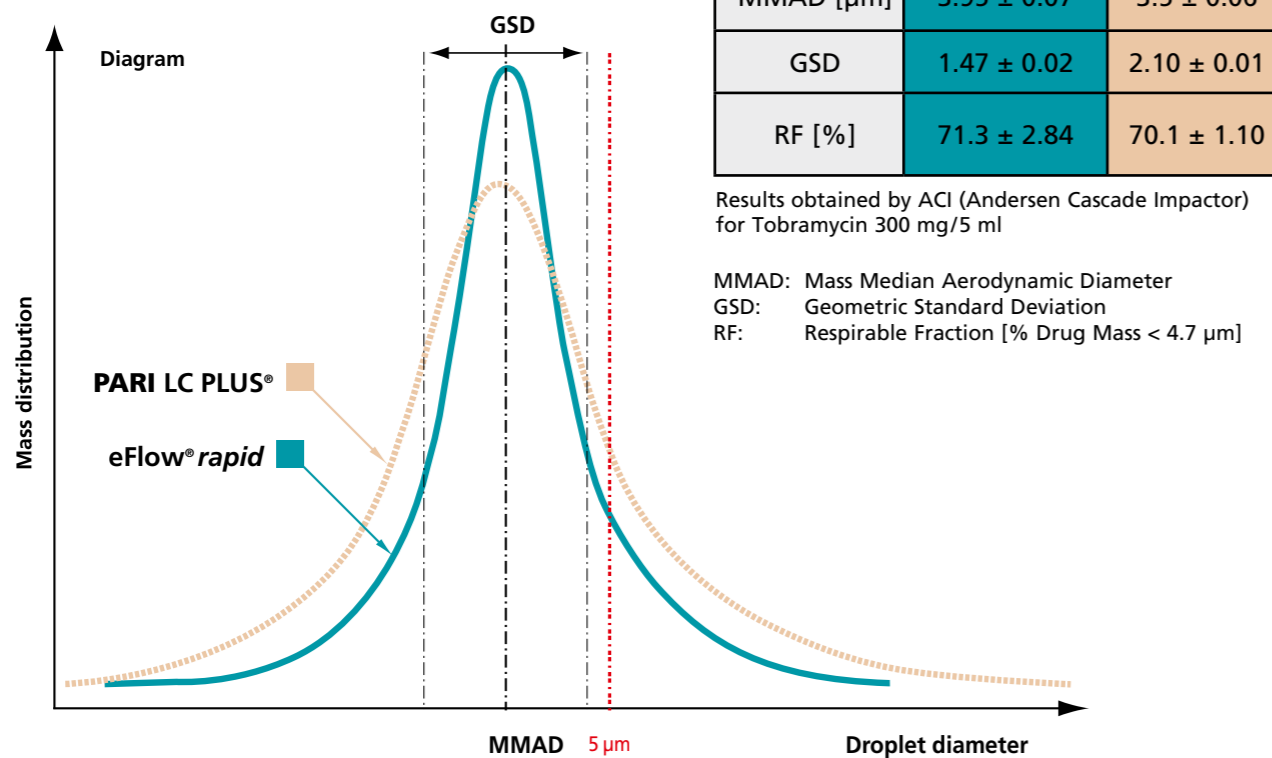


Targeted drug deposition

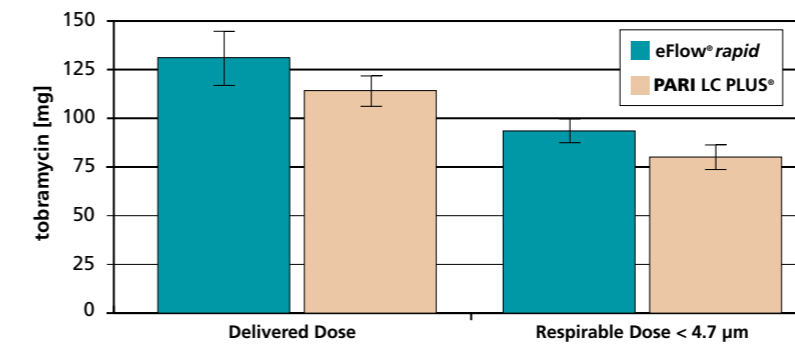
The drug mass is significantly larger in the therapeutic relevant range between 3.3 and 4.7 µm. The drug mass below 2.1 µm is reduced.

*data on file (n=6)

The Variation of Droplet Size is significantly lower with the eFlow[®] rapid.



Administered Dose of Tobramycin 300 mg/5 ml*

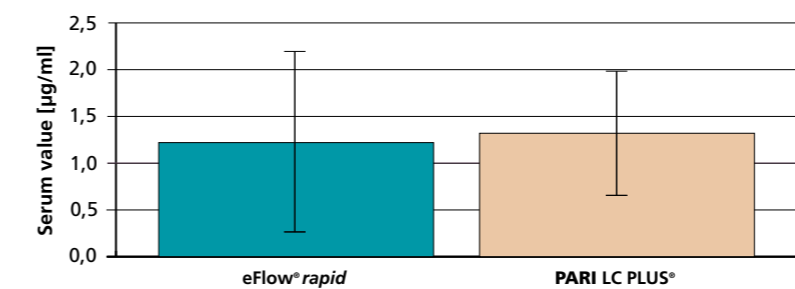


Comparable dose

The delivered and the respirable dose are only slightly increased with the eFlow[®] rapid.

*data on file (n=6)

Serum Level (Mean Values) after Administration of Tobramycin 300 mg/5 ml (60 min after Inhalation)*



Comparable serum level

The serum level after inhalation with the eFlow[®] rapid is comparable to standard therapy using the PARI LC PLUS[®].

*Hubert et al: Pharmacokinetic comparison of inhaled tobramycin (TOBI[®]) via PARI eFlow[®] rapid or PARI LC[®] Plus nebulizers in cystic fibrosis patients. European Cystic Fibrosis Conference 2007

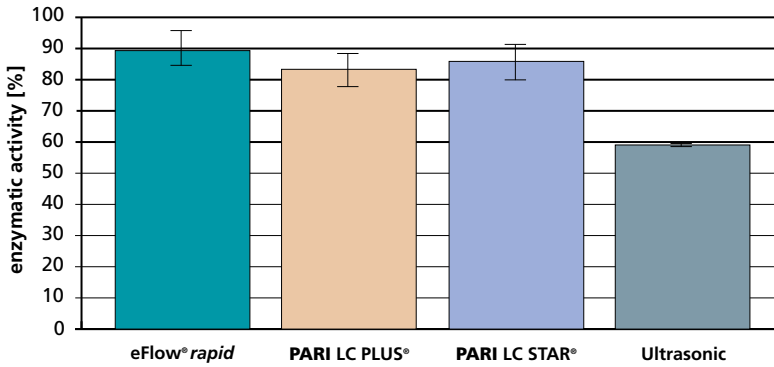
Results using Dornase alfa 2.5 mg/2.5 ml and Salbutamol 2.5 mg/2.5 ml

S. Seemann, A. Schmitt, R. Waldner, M. Hug, M.Knoch: Improving aerosol drug delivery in CF therapy. European Cystic Fibrosis Society, 28th European Cystic Fibrosis Conference, Crete, Greece, June 22-25, 2005.



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Enzymatic Activity in Dornase alfa after Nebulization*

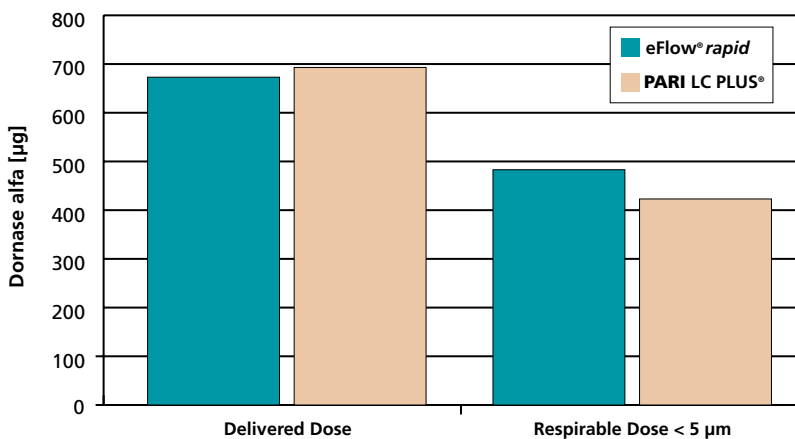


Highest activity

The structure of proteins remain largely stable during nebulization using the eFlow[®] rapid.

*Lichtinghagen (2004), MHH

Administered Dose of Dornase alfa 2.5 mg/2.5 ml *

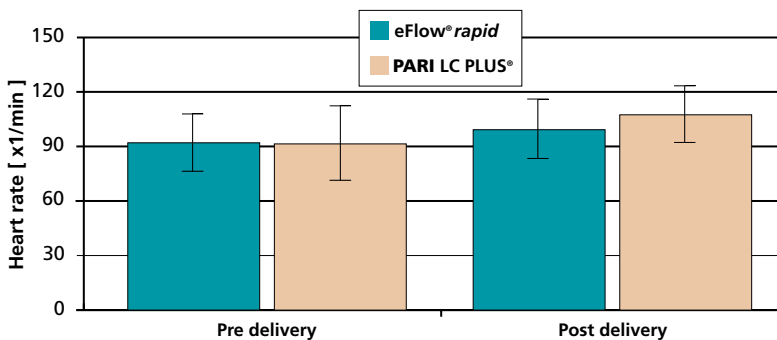


Comparable dose

The delivered and respirable dose using the eFlow[®] rapid are comparable to therapy using the PARI LC PLUS[®].

*Lichtinghagen (2005), MHH

Heart Rate pre and post Delivery of Salbutamol 2.5 mg/2.5 ml (10 min after inhalation)*



Comparable treatment safety

The measured heart rates indicate a comparatively safe therapy.

*data on file (n=10)

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Additional Information

PARI Pharma GmbH
Moosstraße 3 • D- 82319 Starnberg

PARI Service Center: 0049 (0) 8151/279-220
E-mail: info@pari.de

www.pari.de • www.eFlowrapid.info