

CONTENT	Page
Abstract	1
Introduction	2 - 7
Results	8 - 80
Tidal volume single-breath washout of two tracer gases - a practical and promising lung function test	8 - 16
A new double-tracer gas single-breath washout to assess early cystic fibrosis lung disease	17 - 27
A realistic validation study of a new nitrogen multiple-breath washout system	28 - 34
Long-term course of lung clearance index between infancy and school-age in cystic fibrosis subjects	35 - 38
Practicability of nitrogen multiple-breath washout measurements in a pediatric cystic fibrosis outpatient setting	39 - 48
Multiple-breath washout measurements can be significantly shortened in children	49 - 58
Guidelines for inert gas washout measurement using multiple and single breath tests	59 - 80
Discussion	81 - 90
Acknowledgments	91 - 95
Funding	96
Appendix	97 - 101
Curriculum Vitae	97
List of Publications	98 - 100
Declaration of Originality	101