## The contribution of patients' lung function to the inspiratory airflow rate achievable through a DPIs' simulator reproducing different intrinsic resistance rates

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## SUPPLEMENTARY MATERIAL

**Table S1.** Univariate logistic regression assessing the probability for the expected value of the inspiratory airflow rate.

	Asthmatic patients OR (95% CI)	COPD patients OR (95% CI)	Restrictive patients OR (95% CI)
Variables		5	
Sex (male)	1.204 (0.67 to 2.16)	1.224 (0.8 to 1.88)	1.458 (0.62 to 3.44)
Age (years)	1 (0.98 to 1.02)	0.998 (0.97 to 1.02)	1.019 (0.99 to 1.05)
BMI	1.01 (0.96 to 1.06)	1.038 (1.01 to 1.07)	1.023 (0.95 to 1.1)
FEV <sub>1</sub> (1)	0.969 (0.71 to 1.32)	1.316 (0.87 to 1.99)	0.848 (0.53 to 1.36)
FEV <sub>1</sub> (%)	1.002 (0.98 to 1.02)	1.005 (0.99 to 1.02)	0.993 (0.98 to 1.01)
IC (1)	1.006 (0.69 to 1.46)	1.314 (0.93 to 1.86)	0.946 (0.57 to 1.58)
IC (%)	1.003 (0.99 to 1.02)	1 (0.99 to 1.01)	0.993 (0.98 to 1.01)
FIV (1)	1.024 (0.71 to 1.47)	1.207 (0.83 to 1.76)	1.086 (0.75 to 1.58)
FIF (l/sec)	0.98 (0.83 to 1.15)	1.022 (0.88 to 1.19)	1.136 (0.86 to 1.5)
FIF (%)	1.002 (0.99 to 1.02)	0.999 (0.99 to 1.01)	1.02 (1 to 1.04)
MEF25 (l/sec)	1.026 (0.75 to 1.41)	1.026 (0.76 to 1.38)	0.841 (0.52 to 1.36)
MEF25 (%)	0.996 (0.99 to 1)	0.999 (0.99 to 1)	0.999 (0.99 to 1.01)
TLC (1)	1.147 (0.86 to 1.53)	1.071 (0.87 to 1.31)	0.872 (0.6 to 1.26)
TLC (%)	1.011 (0.99 to 1.03)	0.999 (0.98 to 1.02)	0.983 (0.97 to 0.99)
RV (1)	1.222 (0.85 to 1.76)	0.678 (0.55 to 0.84)	0.781 (0.53 to 1.14)
RV (%)	1.006 (1 to 1.01)	0.993 (0.99 to 1)	0.991 (0.98 to 1)
$I_{Raw}(1)$	1.027 (0.97 to 1.09)	0.934 (0.85 to 1.03)	0.932 (0.67 to 1.29)
$E_{Raw}(1)$	1.014 (0.94 to 1.1)	1.033 (0.95 to 1.12)	1.033 (0.88 to 1.21)
DPI resistance			
Low vs mid	0.086 (0.02 to 0.36)	0.067 (0.02 to 0.19)	NA
High vs mid	0.116 (0.03 to 0.41)	0.412 (0.14 to 1.21)	5.444 (1.05 to 28.11)

CI, confidence interval; OR, odds ratio.