

Table S8. Fold Difference in Particle Counts when Compared to Breathing Alone across all Subjects and when the Highest is Removed

Fold Change Compared to Breath	All Subjects (N=10)	Highest Removed (N=9)
Talk	34.63	31.12
Exercise	58.01	55.77
Shout	163.64	147.26
FEV	227.58	164.69
Cough	370.76	323.81
HFNC		
HFNC BR 20	1.27	1.33
HFNC BR 40	1.73	1.67
HFNC BR 60	2.30	1.94
HFNO		
HFNO TLK 60	32.26	27.35
HFNO EXE 60	39.49	36.97
HFNO FEV 60	156.58	90.14
HFNO CHG 60	182.80	174.18
NIPPV-D		
NIPPV-D BR 5/5	1.86	2.00
NIPPV-D BR 10/10	2.87	2.64
NIPPV-D BR 15/10	3.06	3.04
NIPPV-D BR 20/10	4.57	4.71
NIPPV-D BR 25/10	7.77	7.01
NIPPV-S		
NIPPV-S BR 5/5	1.49	1.31
NIPPV-S BR 10/10	1.35	1.37
NIPPV-S BR 15/10	2.14	2.15
NIPPV-S BR 20/10	2.43	2.26
NIPPV-S BR 25/10	2.64	2.37
NIPPV-D EXE		
NIPPV-D EXE 20/10	39.47	40.23
NIPPV-S EXE		
NIPPV-S EXE 20/10	20.64	20.36