

Table S1. Effects of the use of pNIV on anxiety, symptom burden & ability to perform tasks.

Question	Pre-VitaBreath	Post-VitaBreath	p value
How anxious are you about becoming short of breath (SOB)? 1= Not at all anxious 10 = Very anxious	7.50 (5.25-8.75)	4 (2-5.75)	0.001* 20 improvements 2 worse 2 ties
How long did it take you to recover from SOB? <1 min 2-3 min 4-5 min 5-7 min 7-10 min More than 10 min	0 (0%) 7 (29.2%) 3 (12.5%) 5 (20.8%) 5 (20.8%) 4 (16.7%)	6 (25%) 9 (37.5%) 4 (16.7%) 1 (4.2%) 2 (8.3%) 2 (8.3%)	0.002* 17 improvements 3 worse 4 ties
Question	Two weeks of VitaBreath	Twelve weeks of VitaBreath	
Has VitaBreath helped your ability to perform activities?			
Speed^ 1 Not at all 2 3 4 5 Yes, Definitely	10 (45.5%) 1 (4.5%) 3 (13.6%) 6 (27.3%) 2 (9.1%)	8 (33.3%) 1 (4.2%) 6 (25%) 2 (8.3%) 7 (29.2%)	0.410* 6 improvements 4 worse 12 ties
Duration^ 1 Not at all 2 3 4 5 Yes, Definitely	8 (36.4%) 1 (4.5%) 3 (13.6%) 6 (27.3%) 4 (18.2%)	6 (25%) 3 (12.5%) 5 (20.8%) 3 (12.5%) 7 (29.2%)	0.856* 7 improvements 6 worse 9 ties
Confidence§ 1 Not at all 2 3 4 5 Yes, Definitely	2 (8.7%) 2 (8.7%) 7 (30.4%) 6 (26.1%) 6 (26.1%)	4 (16.7%) 1 (4.2%) 5 (20.8%) 5 (20.8%) 9 (37.5%)	0.972* 8 improvements 5 worse 10 ties
How often do you use VitaBreath? Several Times a day Once a day Couple times a week Once a week	17 (70.8%) 1 (4.2%) 3 (12.5%) 2 (8.3%)	15 (62.5%) 1 (4.2%) 5 (20.8%) 2 (8.3%)	0.588*

Not at all	1 (4.2%)	1 (4.2%)	
What do you use VitaBreath for?~			
Waking Inside	15 (62.5%)	15 (65.2%)	n/a
Walking Outside	13 (54.2%)	15 (65.2%)	n/a
Climbing Stairs	5 (20.8%)	8 (34.8%)	n/a
Grocery shopping	2 (8.3%)	7 (30.4%)	n/a
Playing with family	2 (8.3%)	4 (17.4%)	n/a
Other physical activity	5 (20.8%)	7 (30.4%)	n/a
Indoor activities	15 (62.5%)	17 (73.9%)	0.453**
Outdoor activities	15 (62.5%)	19 (82.6%)	0.125**
How often are you breathless because of your COPD?			
Several times a day	21 (87.5%)	18 (75%)	0.672*
Once a day	0 (0%)	1 (4.2%)	3 improvements
Couple times a week	0 (0%)	3 (12.5%)	3 worse
Once a week	1 (4.2%)	2 (8.3%)	18 ties
Under once a week	2 (8.3%)	0 (0%)	
Does breathlessness stop you performing certain activities?			
Yes	19 (79.2%)	21 (87.5%)	0.50**
Do you plan activities based on the potential to become short of breath?			
Yes	20 (83.3%)	16 (66.7%)	0.219**
How would you rate VitaBreath for ease of use?			
Excellent		8 (33.3%)	
Very Good		9 (37.5%)	n/a
Good	n/a	7 (29.2%)	
Fair		0	
Poor		0	
How would you rate VitaBreath for portability?			
Excellent		3 (12.5%)	
Very Good	n/a	5 (20.8%)	n/a

Good Fair Poor		1 (4.2%) 7 (29.2%) 8 (33.3%)	
How active have you been since VitaBreath, compared to before?§			
Median (IQR)	6(5-7)	6(5-7.75)	0.94*
1(Much less active) to 4 5= The same 6 to 10 (much more active)	2 (8.7%) 8 (34.8%) 13 (56.5%)	2 (8.4%) 8 (33.3%) 14 (58.3%)	
Given your recent experience with VitaBreath, how likely is it that you would recommend VitaBreath to a friend or colleague, or other people with COPD?§			
1 (Not at all likely) to 10 (Extremely likely)	Median 9 (7-10)	Median 10(7-10)	0.404* 7 less likely to recommend 5 more likely to recommend 10 Ties
Data presented as Median (IQR); Absolute number (%); *Wilcoxon Signed-rank test; ** McNemar's test; § 1 missing record at 2 weeks; ^2 missing records at 2 weeks; ~ 1 record missing at 12 weeks.			