

ARTICLE TITLE – A Randomised Crossover Trial Evaluating the Short-Term Effects of Non-Invasive Ventilation as an Adjunct to Airway Clearance Techniques in Adults with Cystic Fibrosis

SUPPLEMENTARY MATERIAL 1

Table: Spirometry and oxygen saturations before and after morning and afternoon treatments

	NIV Supported ACT (n=14)				Usual ACT (n=14)			
	Baseline	Post	MD (95% CI)	P value	Baseline	Post	MD (95% CI)	P value
Morning Results								
Mean (SD) FEV₁% pred (%)	49.0 (19.9)	49.2 (18.8)	0.2 (-1.9 to 1.4)	0.78	48.9(20.0)	48.4 (19.4)	-0.5 (-1.1 to 2.1)	0.5
Mean (SD) FVC% pred (%)	68.1 (18.7)	71.9 (16.7)	3.8 (-7.7 to 0.1)	0.06	68.9 (18.77)	70.3 (15.5)	1.4 (-4.3 to 1.5)	0.31
Mean (SD) MEF 25% pred (%)	34.3 (20.9)	33.1 (20.5)	-1.1 (-1.4 to 3.7)	0.35	31.9 (21.7)	33.6 (21.2)	-0.6 (-1.4 to 2.7)	0.51
Mean (SD) MEF 75% pred (%)	17.3 (10.3)	16.1 (9.2)	-1.2 (-0.9 to 3.3)	0.24	15.4 (8.9)	15.9 (10.1)	0.5 (-2.0 to 1.0)	0.47
Mean (SD) oxygen saturations (%)	94.9 (2.7)	93.3 (2.3)	-0.5 (-0.9 to 1.9)	0.45	93.9 (2.8)	94.4 (2.5)	0.5 (-1.4 to 0.4)	0.26
Afternoon Results								
Mean (SD) FEV₁% pred (%)	49.6 (18.9)	50.8 (19.1)	1.1 (-3.7 to 1.4)	0.35	48.9 (19.2)	48.9 (18.0)	0.0 (-1.34 to 1.34)	1
Mean (SD) FVC %pred (%)	69.6 (16.9)	70.4 (16.5)	0.9 (-3.0 to 1.3)	0.40	71.1 (17.6)	72.1 (16.9)	1.1 (-4.0 to 1.8)	0.44
Mean (SD) MEF 25 %pred (%)	34.1 (22.8)	34.4 (23.3)	0.3 (-2.9 to 2.4)	0.82	34.4 (19.9)	33.1 (20.2)	-1.3 (-0.3 to 2.8)	0.10
Mean (SD) MEF 75 %pred (%)	15.9 (10.2)	16.1 (9.4)	0.2 (-2.8 to 2.4)	0.86	16.1 (9.6)	14.5 (7.2)	-1.6 (-0.6 to 3.9)	0.13
Mean (SD) oxygen saturations (%)	94.9 (2.7)	94.5 (2.7)	-0.4 (-0.3 to 1.1)	0.29	94.3 (2.4)	94.0 (3.0)	-0.3 (-0.7 to 1.3)	0.56