Supplementary Table 8: Average annual change* in lung function and symptoms domain of health status related to step count, sedentary time and moderate-to-vigorous physical activity (MVPA) at baseline (multivariable linear regression model) after excluding patients participating in a pulmonary rehabilitation program at baseline (n=4)

Step count		MVPA		Sedentary time	
	T		1		
	,			Per hour.day ⁻¹ increase	1
	p-value		p-value	Estimate (95% CI)	p-value
,	<0.01	, , ,	<0.01	14 (25 to 2 4)	0.02
7.00 (2.2 to 11.8)	<0.01		<0.01	-14 (-23 to -2.4)	
8.48 (0.29 to 16.7)	0.04	4.99 (-1.35 to 11.33)	0.12	-21 (-42 to -0.4)	0.046
0.10 (0.06 to 0.14)	0.04	0.03 (-0.05 to 0.10)	0.49	-0.25 (-0.5 to 0.01)	0.06
-0.35 (-0.67 to -0.02)	0.03	-0.20 (-0.45 to 0.05)	0.12	0.81 (0.0 to 1.6)	0.04
	Per 1000 increase in steps.day ⁻¹ Estimate (95% CI) 7.00 (2.2 to 11.8) 8.48 (0.29 to 16.7) 0.10 (0.06 to 0.14)	Per 1000 increase in steps.day ⁻¹ p-value Estimate (95% CI) 7.00 (2.2 to 11.8) <0.01 8.48 (0.29 to 16.7) 0.04 0.10 (0.06 to 0.14) 0.04	Per 1000 increase in steps.day ⁻¹ p-value increase Estimate (95% CI) Estimate (95% CI) 7.00 (2.2 to 11.8) 8.48 (0.29 to 16.7) 0.04 0.03 (-0.05 to 0.10)	Per 1000 increase in steps.day ⁻¹ p-value increase p-value Estimate (95% CI) Estimate (95% CI) 5.13 (1.53 to 8.28) <0.01 8.48 (0.29 to 16.7) 0.04 4.99 (-1.35 to 11.33) 0.12 0.10 (0.06 to 0.14) 0.04 0.03 (-0.05 to 0.10) 0.49	Per 1000 increase in steps.day ⁻¹ p-value increase Estimate (95% CI) Estimate (95% CI) Fer 10 minutes.day ⁻¹ p-value increase Estimate (95% CI) Estimate (95% CI) Fer hour.day ⁻¹ increase Estimate (95% CI) 7.00 (2.2 to 11.8)

MVPA = moderate-to-vigorous physical activity, FEV_1 = forced expiratory volume in 1 second, FVC = forced vital capacity, DL_{co} = diffusion capacity of the lung carbon monoxide, SGRQ = Saint George's respiratory questionnaire. Analyses are bases on 109 patients (step count and MVPA) or 108 patients (sedentary time).

- * Negative values represent a decline in the outcome measure.
- † Every cell is a single multivariable model adjusted for baseline value of the corresponding outcome and (i) age, sex, exacerbation history (≥ 1 / 0), BMI, Charlson index, smoking status (current / not current), pack-years and duration of daylight for lung function variables, or (ii) age, sex, exacerbation history (≥ 1 / 0), smoking status, FEV₁% predicted, 6MWD and duration of daylight for SGRQ. The full list of potential confounders included: age, sex, education, marital status, work status, baseline smoking status, smoking history expressed as pack-years, medication (including long acting bronchodilators, inhaled corticosteroids and a combined inhaled therapy), diet (including vegetables, meat and fruit intake), Charlson index, BMI, FFM, FFMi, mMRC, COPD exacerbation history, FEV₁% predicted, hand grip force, 6MWD and duration of daylight. Criteria for keeping them in the final model are detailed in the methods (complete version)