

Supplemental Table 1. Prevalence rate of airflow obstruction using pre- vs post-bronchodilator FEV1/FVC<0.7.

	PREO	PREN	Total
POSTO	4150 (41.5%)	301 (3%)	4451 (44.5%)
POSTN	866 (8.7%)	4683 (46.8%)	5549 (55.5%)
Total	5016 (50.2%)	4984 (49.8%)	10000 (100%)
P value <0.001			

The McNemar test was used to compare the prevalence rate of airflow obstruction using pre-bronchodilator FEV1/FVC<0.7 vs post-bronchodilator FEV1/FVC<0.7.

PREO= pre-bronchodilator FEV1/FVC<0.7

PREN= pre-bronchodilator FEV1/FVC≥0.7

POSTO= post-bronchodilator FEV1/FVC<0.7

POSTN= post-bronchodilator FEV1/FVC≥0.7

Supplemental Table 2. Multivariable linear regression models for subjects with airflow discordance in pre- and post-bronchodilator spirometry (PREN-POSTO versus PREO-POSTN subjects).

Models included demographics, smoking and comorbidities			
	Coef (95%CI)	P value	AIC
MMRCD	0.19 (0.03, 0.34)	0.019	390
SGRQ	3.55 (1.27, 5.82)	0.002	6660
6-MWD, feet	-61.01 (-105.96, -17.06)	0.007	13388
Models included demographics, smoking and comorbidities and post-bronchodilator FEV1 % predicted			
	Coef (95%CI)	P value	AIC
MMRCD	0.07 (-0.08, 0.22)	0.37	324
SGRQ	1.7 (-0.54, 3.93)	0.14	6581
6-MWD, feet	-18.53 (-61.06, 24)	0.39	13275

All regression models included the following co-variates: age, sex, race, smoking status, pack per years, history (per questionnaire) of asthma, diabetes, high blood pressure, stroke and sleep apnea.

AIC = Akaike information criterion; MMRC = modified Medical Research Council dyspnea score; SGRQ = St. George's Respiratory Questionnaire score; 6-MWD = 6-min walk distance; 95%CI= 95% confidence interval.

PREO-POSTN = pre-bronchodilator FEV1/FVC<0.7 and post-bronchodilator FEV1/FVC>0.7

PREN-POSTO = pre-bronchodilator FEV1/FVC>0.7 and post-bronchodilator FEV1/FVC<0.7

Supplemental Table 3. Multivariable linear regression models for subjects with airflow discordance in pre- and post-bronchodilator spirometry (PREN-POSTO versus PREO-POSTN subjects).

Models included demographics, smoking and comorbidities			
	Coef (95%CI)	P value	AIC
Change in FEV1, ml	70.6(13.8, 127.3)	0.015	6249
Change in 6-MWD, feet	-23.5(-85.3, 38.3)	0.46	6343
Models included demographics, smoking and comorbidities and post-bronchodilator FEV1 % predicted			
	Coef (95%CI)	P value	AIC
Change in FEV1, ml	37.5 (-18, 92.9)	0.19	6208
Change in 6-MWD, feet	-22.7 (-85.5, 40.1)	0.48	6345

All regression models included the following co-variates: age, sex, race, smoking status, pack per years, history (per questionnaire) of asthma, diabetes, high blood pressure, stroke and sleep apnea.

AIC = Akaike information criterion; 6-MWD = 6-min walk distance; 95%CI= 95% confidence interval.

PREO-POSTN = pre-bronchodilator FEV1/FVC<0.7 and post-bronchodilator FEV1/FVC>0.7

PREN-POSTO = pre-bronchodilator FEV1/FVC>0.7 and post-bronchodilator FEV1/FVC<0.7

Supplemental Table 4. Spirometric pattern at Phase 2 visit of subjects with PREO_POSTN and PREN_POSTO at baseline.

		PREO-POSTN		PREN-POSTO
Phase 2	PREO-POSTO	44.3% (167)		49.4% (82)
	PREN-POSTN	31.8% (120)		30.7% (51)
	PREO-POSTN	19.1% (72)		14.5% (24)
	PREN-POSTO	4.8% (18)		5.4% (9)
	Total	100% (377)		100% (166)

PREN-POSTN = pre-bronchodilator FEV1/FVC>0.7 and post-bronchodilator FEV1/FVC>0.7

PREO-POSTNO = pre-bronchodilator FEV1/FVC<0.7 and post-bronchodilator FEV1/FVC<0.7

PREO-POSTN = pre-bronchodilator FEV1/FVC<0.7 and post-bronchodilator FEV1/FVC>0.7

PREN-POSTO = pre-bronchodilator FEV1/FVC>0.7 and post-bronchodilator FEV1/FVC<0.7

Supplemental table 5. Association of the various spirometric patterns with mortality.

	HR (95%CI)	P value
PREN-POSTN	-	-
PREO-POSTO	2.81 (2.34, 3.38)	< 0.001
PREO-POSTN	1.32 (0.94, 1.84)	0.11
PREN-POSTO	1.34 (0.85, 2.11)	0.2

All regression models included the following co-variates: age, sex, race, smoking status, pack per years, history (per questionnaire) of asthma, diabetes, high blood pressure, stroke and sleep apnea.

AIC = Akaike information criterion; HR = Hazard ratio.

PREN-POSTN = pre-bronchodilator FEV1/FVC>0.7 and post-bronchodilator FEV1/FVC>0.7

PREO-POSTNO = pre-bronchodilator FEV1/FVC<0.7 and post-bronchodilator FEV1/FVC<0.7

PREO-POSTN = pre-bronchodilator FEV1/FVC<0.7 and post-bronchodilator FEV1/FVC>0.7

PREN-POSTO = pre-bronchodilator FEV1/FVC>0.7 and post-bronchodilator FEV1/FVC<0.7